

## Rabbit anti-Human, Mouse Dysferlin Polyclonal Antibody | anti-DYSF antibody

Dysferlin Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                                                 |
|-----------|--------|--------------|--------------------------------------------------------------|
| AAA320797 | Rabbit | Human, Mouse | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

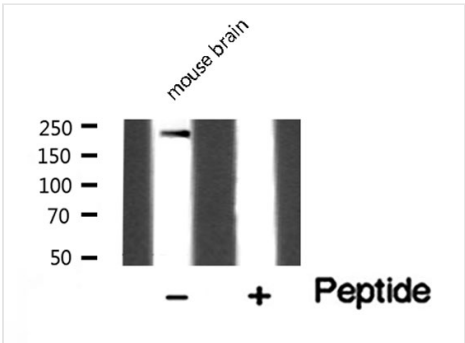
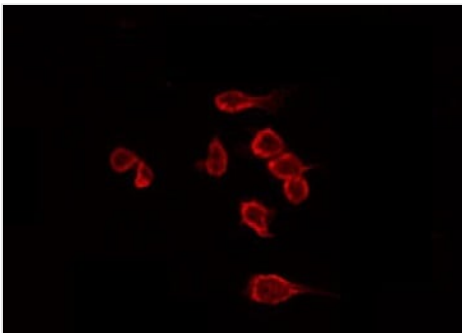
### PRODUCT SYNONYMS

Dysferlin; Polyclonal Antibody; Dysferlin Antibody; DMAT; DYSF; DYSF\_HUMAN; Dysferlin limb girdle muscular dystrophy 2B (autosomal recessive); Dysferlin limb girdle muscular dystrophy 2B; Dystrophy associated fer 1 like 1; Dystrophy associated fer 1 like protein; Dystrophy associated fer1 like 1; Dystrophy associated fer1 like protein; Dystrophy-associated fer-1-like protein; Fer 1 like protein 1; Fer-1-like protein 1; Fer1 like protein 1; FER1L1; FLJ00175; FLJ90168; LGMD 2B; LGMD2B; Limb girdle muscular dystrophy 2B (autosomal recessive); Limb girdle muscular dystrophy 2B; Miyoshi myopathy; MM; MMD1; anti-DYSF antibody

### PRODUCT SPECIFICATIONS

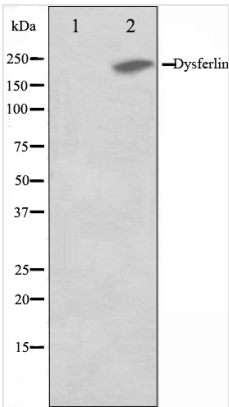
|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Reactivity                                     | Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Isotype                                        | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity                                    | Dysferlin antibody detects endogenous levels of total Dysferlin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sequence Length                                | 2081                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Applicable Applications for anti-DYSF antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Immunogen                                      | A synthesized peptide derived from human Dysferlin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Subcellular Location                           | Cell Membrane > Sarcolemma. Cytoplasmic Vesicle Membrane. Colocalizes, during muscle differentiation, with BIN1 in the T-tubule system of myotubules and at the site of contact between two myotubes or a myoblast and a myotube. Wounding of myotubes led to its focal enrichment to the site of injury and to its relocalization in a Ca(2+)-dependent manner toward the plasma membrane. Colocalizes with AHNAK, AHNAK2 and PARVB at the sarcolemma of skeletal muscle. Detected on the apical plasma membrane of the syncytiotrophoblast. Reaches the plasmma membrane through a caveolin-independent mechanism. Retained by caveolin at the plasmma membrane (By similarity). Colocalizes, during muscle differentiation, with CACNA1S in the T-tubule system of myotubules (By similarity). Accumulates and colocalizes with fusion vesicles at the sarcolemma disruption sites. |
| Tissue Specificity                             | Expressed in skeletal muscle, myoblast, myotube and in the syncytiotrophoblast (STB) of the placenta (at protein level). Ubiquitous. Highly expressed in skeletal muscle. Also found in heart, brain, spleen, intestine, placenta and at lower levels in liver, lung, kidney and pancreas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Predicted Cross Reactivity                     | <b>Pig, Bovine, Horse, Sheep, Rabbit, Dog</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Similarity                                     | Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

IMAGES



**IF (Immunofluorescence)**  
AAA320797 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

**WB (Western Blot)**  
Western blot analysis of Dysferlin expression in Mouse brain lysate



**WB (Western Blot)**  
Western blot analysis on K562 cell lysate using Dysferlin Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-DYSF antibody

Description: DYSF Key calcium ion sensor involved in the Ca(2+)-triggered synaptic vesicle-plasma membrane fusion. Plays a role in the sarcolemma repair mechanism of both skeletal muscle and cardiomyocytes that permits rapid resealing of membranes disrupted by mechanical stress. Belongs to the ferlin family. Interacts with CACNA1S. Interacts with ANXA1; the interaction is Ca(2+)-and injury state-dependent.

Function: Key calcium ion sensor involved in the Ca2+-triggered synaptic vesicle-plasma membrane fusion. Plays a role in the sarcolemma repair mechanism of both skeletal muscle and cardiomyocytes that permits rapid resealing of membranes disrupted by mechanical stress (By similarity).

Subunit Structure: Interacts with CACNA1S. Interacts with ANXA1; the interaction is Ca2+-and injury state-dependent. Interacts with ANXA2; the interaction is Ca2+-and injury state-dependent. Interacts with CACNA1S and PARVB. Interacts with TRIM72/MG53; interaction is required for transport to sites of cell injury during repair patch formation (By similarity). Interacts with RIPOR2; this interaction occurs during early myogenic differentiation (PubMed:24687993). Interacts with CAV3 and PARVB. Interacts with AHNAK; the interaction is direct and Ca2+-independent. Interacts with AHNAK2; the interaction is direct and Ca2+-independent.

Similarity: All seven C2 domains associate with lipid membranes in a calcium-dependent manner. Domains C2 1 and 3 have the highest affinity for calcium, the C2 domain 1 seems to be largely unstructured in the absence of bound ligands. The C2 domain 1 from isoform 14 does not bind calcium in the absence of bound phospholipid (PubMed:24239457, PubMed:24461013). Belongs to the ferlin family.

NCBI AND UNIPROT INFORMATION

|             |           |
|-------------|-----------|
| NCBI GI #   | 195976821 |
| NCBI GeneID | 8291      |

|                                  |                                                                                                                                                                                                                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Accession #                 | <a href="#">NP_001123927.1</a>                                                                                                                                                                                                                                                                            |
| NCBI GenBank Nucleotide #        | <a href="#">NM_001130455.1</a>                                                                                                                                                                                                                                                                            |
| UniProt Accession #              | <a href="#">O75923</a> ; <a href="#">A0FK00</a> ; <a href="#">B1PZ70</a> ; <a href="#">B1PZ71</a> ; <a href="#">B1PZ72</a> ; <a href="#">B1PZ73</a> ; <a href="#">B1PZ74</a> ; <a href="#">B1PZ75</a> ; <a href="#">B1PZ76</a> ; <a href="#">B1PZ77</a> ; <a href="#">B1PZ78</a> ; <a href="#">B1PZ79</a> |
| Molecular Weight                 | Observed: 240 kDa<br>Predicted: 238 kDa                                                                                                                                                                                                                                                                   |
| NCBI Official Full Name          | dysferlin isoform 2                                                                                                                                                                                                                                                                                       |
| NCBI Official Synonym Full Names | dysferlin                                                                                                                                                                                                                                                                                                 |
| NCBI Official Symbol             | DYSF                                                                                                                                                                                                                                                                                                      |
| NCBI Official Synonym Symbols    | MMD1; FER1L1; LGMD2B; LGMDR2                                                                                                                                                                                                                                                                              |
| NCBI Protein Information         | dysferlin                                                                                                                                                                                                                                                                                                 |
| UniProt Protein Name             | Dysferlin                                                                                                                                                                                                                                                                                                 |
| UniProt Gene Name                | <b>DYSF</b>                                                                                                                                                                                                                                                                                               |
| UniProt Synonym Gene Names       | FER1L1                                                                                                                                                                                                                                                                                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/dysferlin-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/320797>