

## Mouse Actin Alpha 2, Smooth Muscle (ACTa2) Monoclonal Antibody | anti-ACTa2 antibody

Monoclonal Antibody to Actin Alpha 2, Smooth Muscle (ACTa2)

| CATALOG # | HOST  | REACTIVITY      | APPLICATIONS                                                                 |
|-----------|-------|-----------------|------------------------------------------------------------------------------|
| AAA152734 | Mouse | Human, Dog, Pig | Immunoprecipitation, Immunocytochemistry, Immunohistochemistry, Western Blot |

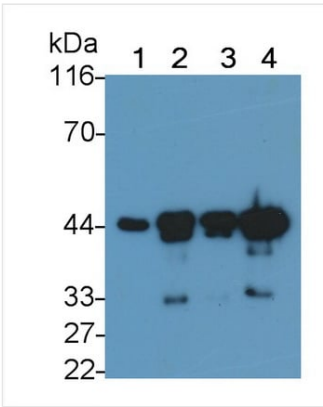
### PRODUCT SYNONYMS

Actin Alpha 2; Smooth Muscle (ACTa2); Monoclonal Antibody; Monoclonal Antibody to Actin Alpha 2; Smooth Muscle; ACT-A2; ACTSA; ACTVS; Asma; GIG46; Cell growth-inhibiting gene 46 protein; anti-ACTa2 antibody

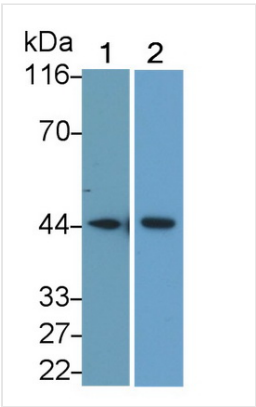
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                      | Human, Dog, Pig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Isotype                                         | IgG1 Kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Clone Number                                    | E101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity                                     | The antibody is a mouse monoclonal antibody raised against ACTa2. It has been selected for its ability to recognize ACTa2 in immunohistochemical staining and western blotting.                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification                             | Protein A + Protein G affinity chromatography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Form/Format                                     | Liquid. 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Concentration                                   | 1mg/mL (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Sequence Positions                              | Ile167~Phe377                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Applicable Applications for anti-ACTa2 antibody | IP (Immunoprecipitation), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Immunogen                                       | Recombinant Actin Alpha 2, Smooth Muscle (ACTa2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Preparation and Storage                         | Store at 4 degree C for frequent use. Store at -20 degree C in a manual defrost freezer for two year without detectable loss of activity. Avoid repeated freeze-thaw cycles.<br>Stable for 12 months if correctly stored.<br>The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |

IMAGES



**WB (Western Blot)**  
Western Blot; Sample: Lane1: human Placenta lysate; Lane2: Porcine Heart lysate; Lane3: Mouse Heart lysate; Lane4: Mouse Skeletal muscle lysatePrimary Ab: 0.01 ug/ml Mouse Anti-ulti-species ACTa2 AntibodySecond Ab: 0.2ug/mL HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody



**WB (Western Blot)**  
Western Blot; Sample: Lane1: Rat Heart lysate; Lane2: Canine Heart lysate Primary Ab: 0.001ug/ml Mouse Anti-ulti-species ACTa2 Antibody Second Ab: 0.2ug/mL HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody

ADDITIONAL INFORMATION

|                                                   |                                                                                   |
|---------------------------------------------------|-----------------------------------------------------------------------------------|
| Product Categories/Family for anti-ACTa2 antibody | Monoclonal Antibodies (Primary Abs); Monoclonal antibodies; Developmental science |
|---------------------------------------------------|-----------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                          |
|----------------------------------|------------------------------------------------------------------------------------------|
| NCBI GI #                        | 119570540                                                                                |
| NCBI GeneID                      | 59                                                                                       |
| UniProt Accession #              | P62736; P03996; P04108; Q6FI19; B2R8A4                                                   |
| Molecular Weight                 | 42,009 Da                                                                                |
| NCBI Official Full Name          | actin, alpha 2, smooth muscle, aorta, isoform CRA_a                                      |
| NCBI Official Synonym Full Names | actin, alpha 2, smooth muscle, aorta                                                     |
| NCBI Official Symbol             | ACTA2                                                                                    |
| NCBI Official Synonym Symbols    | AAT6; ACTSA; MYMY5                                                                       |
| NCBI Protein Information         | actin, aortic smooth muscle; alpha-cardiac actin; cell growth-inhibiting gene 46 protein |
| UniProt Protein Name             | Actin, aortic smooth muscle                                                              |
| UniProt Gene Name                | ACTA2                                                                                    |
| UniProt Synonym Gene Names       | ACTSA; ACTVS                                                                             |
| UniProt Entry Name               | ACTA_HUMAN                                                                               |

**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/monoclonal/actin-alpha-2-smooth-muscle-acta2-antibody-clone-e101-immunoprecipitation-immunocytochemistry-immunohistochemistry-western-blot-elisa/152734>