

Rabbit anti-Human MYT1L Polyclonal Antibody | anti-MYT1L antibody

Anti-MYT1L Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127482	Rabbit	Human	Flow Cytometry, Functional Assay, Western Blot, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

MYT1L; Polyclonal Antibody; Anti-MYT1L Antibody Picoband; Chromaffin granule amine transporter; fascin actin-bundling protein 2; retinal; Fascin-2; Retinal fascin; FSCN2; anti-MYT1L antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Localized specifically in the outer and inner segments of the photoreceptor cells in the retina.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-MYT1L antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Immunogen	E coli-derived human MYT1L recombinant protein (Position: D195-K825).
Subcellular Localization	Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Acts as an actin bundling protein. May play a pivotal role in photoreceptor cell-specific events, such as disk morphogenesis.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HepG2 cells using anti-MYT1L antibody (AAA127482).Overlay histogram showing HepG2 cells stained with AAA127482 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MYT1L Antibody (AAA127482, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of MYT1L using anti-MYT1L antibody (AAA127482).MYT1L was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-MYT1L Antibody (AAA127482) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of MYT1L using anti-MYT1L antibody (AAA127482). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human SH-SY5Y whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MYT1L antigen affinity purified polyclonal antibody (#AAA127482) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MYT1L at approximately 133 kDa. The expected band size for MYT1L is at 133 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MYT1L antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-MYT1L antibody	Primary Antibodies; Golgi Proteins; Protein Trafficking; Signal Transduction; Vesicle Transport
References	1. Blanchet, P., Bebin, M., Bruet, S., Cooper, G. M., Thompson, M. L., Duban-Bedu, B., Gerard, B., Piton, A., Suckno, S., Deshpande, C., Clowes, V., Vogt, J., Turnpenny, P., Williamson, M. P., Alembik, Y., Clinical Sequencing Exploratory Research Study Consortium, Deciphering Developmental Disorders Consortium, Glasgow, E., McNeill, A. MYT1L mutations cause intellectual disability and variable obesity by dysregulating gene expression and development of the neuroendocrine hypothalamus. PLoS Genet. 13: e1006957, 2017. Note: Electronic Article. 2. de Ligt, J., Willemsen, M. H., van Bon, B. W. M., Kleefstra, T., Yntema, H. G., Kroes, T., Vulto-van Silfhout, A. T., Koolen, D. A., de Vries, P., Gilissen, C., del Rosario, M., Hoischen, A., Scheffer, H., de Vries, B. B. A., Brunner, H. G., Veltman, J. A., Vissers, L. E. L. M. Diagnostic exome sequencing in persons with severe intellectual disability. New Eng. J. Med. 367: 1921-1929, 2012. 3. De Rocker, N., Vergult, S., Koolen, D., Jacobs, E., Hoischen, A., Zeesman, S., Bang, B., Bena, F., Bockaert, N., Bongers, E. M., de Ravel, T., Devriendt, K., and 24 others. Refinement of the critical 2p25.3 deletion region: the role of MYT1L in intellectual disability and obesity. Genet. Med. 17: 460-466, 2015.

NCBI AND UNIPROT INFORMATION

NCBI GI #	60498973
NCBI GeneID	23040
NCBI Accession #	NP_055840
NCBI GenBank Nucleotide #	NM_015025.3
UniProt Accession #	Q9UL68; Q6IQ17; Q9UPP6; A7E2C7; B2RP54
Molecular Weight	130 kDa
NCBI Official Full Name	myelin transcription factor 1-like protein isoform 2
NCBI Official Synonym Full Names	myelin transcription factor 1-like
NCBI Official Symbol	MYT1L
NCBI Official Synonym Symbols	NZF1; ZC2HC4B
NCBI Protein Information	myelin transcription factor 1-like protein; myT1-L; neural zinc finger transcription factor 1
UniProt Protein Name	Myelin transcription factor 1-like protein

UniProt Gene Name	MYT1L
UniProt Synonym Gene Names	KIAA1106; MyT1-L; MyT1L
UniProt Entry Name	MYT1L_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/polyclonal/myt1l-antibody-flow-cytometry-western-blot-immunofluorescence-immunocytochemistry-elisa/127482>