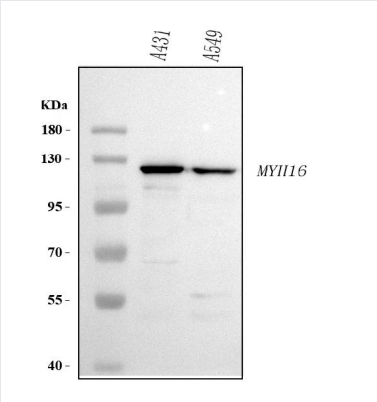
MYH16 Antibody – Rabbit Polyclonal

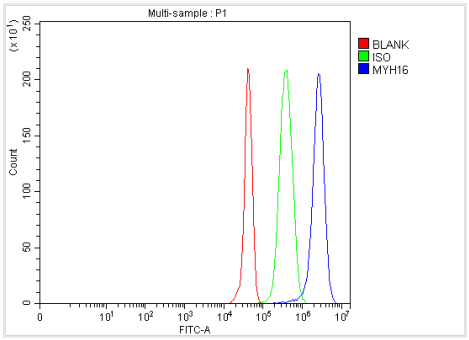
PRODUCT OVERVIEW

Product Name	MYH16, Polyclonal Antibody
Full Product Name	Anti-MYH16 Antibody Picoband
Product Gene Name	anti-MYH16 antibody
Product Synonym Names	Transmembrane protein 240; kelch repeat and BTB domain containing 2; Kelch repeat and BTB domain-containing protein 2; BTB and kelch domain-containing protein 1; KBTBD2; BKLHD1; KIAA1489
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon.
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.
Molecular Weight	128,290 Da
3D Structure	ModBase 3D Structure for Q9H6N6
Immunogen	E coli-derived human MYH16 recombinant protein (Position: K405-A1073).
Subcellular Localization	Cul3-RING ubiquitin ligase complex
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	Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination. Probably acts by forming a complex with MEI4 and REC114, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis. Not required for HORMAD1 functions in pairing-independent synaptonemal complex formation, ATR recruitment to unsynapsed axes, meiotic silencing of unsynapsed chromatin (MSUC) or meiotic surveillance.
Product Categories/Family for anti-MYH16 antibody	Primary Antibodies; Cell Biology
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-MYH16 antibody	ELISA (EIA), Immunocytochemistry (ICC), Immunofluorescence (IF), Western Blot (WB), Flow Cytometry (FC/FACS)
Application Notes for anti-MYH16 antibody	WB: 0.25-0.5ug/ml, Human ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-MYH16 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.

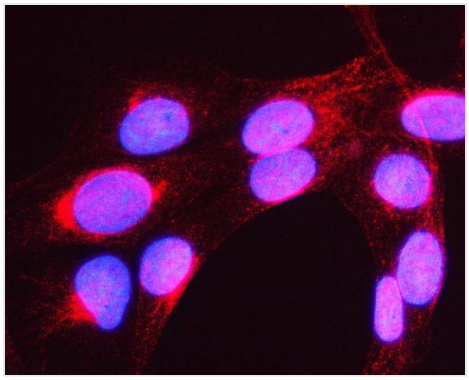
Product References and Citations for anti-MYH16 antibody	1. Desjardins, P. R., Burkman, J. M., Shrager, J. B., Allmond, L. A., Stedman, H. H. Evolutionary implications of three novel members of the human sarcomeric myosin heavy chain gene family. Molec. Biol. Evol. 19: 375-393, 2002.2. Stedman, H. H., Kozyak, B. W., Nelson, A., Thesier, D. M., Su, L. T., Low, D. W., Bridges, C. R., Shrager, J. B., Minugh-Purvis, N., Mitchell, M. A. Myosin gene mutation correlates with anatomical changes in the human lineage. Nature 428: 415-418, 2004.
Other Notes	Small volumes of anti-MYH16 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MYH16 purchase	MBS1759442 is an antibody targeting MYH16. Also known as Anti-MYH16 Antibody Picoband. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MYH16 antibody
Figure 1. Western blot analysis of MYH16 using anti-MYH16 antibody (MBS1759442).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 A431 whole cell lysates,Lane 2: human A549 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-MYH16 antigen affinity purified polyclonal antibody (#MBS1759442) 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 (#MBS176460) with Tanon 5200 system. A specific band was detected for MYH16 at approximately 128 kDa. The expected band size for MYH16 is at 128 kDa.



Flow Cytometry (FC/FACS) of anti-MYH16 antibody
Figure 3. Flow Cytometry analysis of JK cells using anti-MYH16 antibody (MBS1759442).Overlay histogram showing JK cells stained with MBS1759442 (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-MYH16 Antibody (MBS1759442, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) 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.



Immunofluorescence (IF) of anti-MYH16 antibody
Figure 2. IF analysis of MYH16 using anti-MYH16 antibody (MBS1759442).MYH16 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (#MBS176582) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-MYH16 Antibody (MBS1759442) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MYH16. It may not necessarily be applicable to this product.

NCBI GI #	825171164
NCBI GeneID	0
NCBI Accession #	Q9H6N6.2
UniProt Primary Accession #	Q9H6N6
NCBI Official Full Name	Putative uncharacterized protein MYH16
UniProt Protein Name	Putative uncharacterized protein MYH16
UniProt Synonym Protein Names	Myosin heavy chain 16 pseudogene
Protein Family	Putative uncharacterized protein
UniProt Gene Name	MYH16
UniProt Comments for MYH16	MYH16: Has most probably lost the function in masticatory muscles contraction suspected for its homologs in dog (AC F1PT61) and apes. {ECO:0000303|PubMed:15042088}. Belongs to the TRAFAC class myosin-kinesin ATPase superfamily. Myosin family. {ECO:0000305} Chromosomal Location of Human Ortholog: 7q22.1 Cellular Component: myosin complex Molecular Function: motor activity
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