

Rabbit MYH14 Polyclonal Antibody | anti-MYH14 antibody

Anti-MYH14 Antibody Picoband

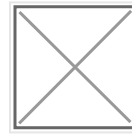
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19818	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

MYH14; Polyclonal Antibody; Anti-MYH14 Antibody Picoband; anti-MYH14 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
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-MYH14 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human, Rat IHC: 2-5ug/ml, Human, Mouse, Rat FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human MYH14 recombinant protein (Position: M1-R1895). Human MYH14 shares 92.5% amino acid (aa) sequence identity with mouse MYH14.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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.



IHC (Immunohistchemistry)

Figure 9. IHC analysis of MYH14 using anti-MYH14 antibody (AAA19818).MYH14 was detected in a paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MYH14 Antibody (AAA19818) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MYH14 Antibody (AAA19818) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MYH14 Antibody (AAA19818) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MYH14 Antibody (AAA19818) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MYH14 Antibody (AAA19818) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MYH14 Antibody (AAA19818) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MYH14 Antibody (AAA19818) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MYH14 Antibody (AAA19818) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: human U-87MG whole cell lysates,Lane 3: human RT4 whole cell lysates,Lane 4: rat lung tissue 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-MYH14 antigen affinity purified polyclonal antibody (#AAA19818) 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 MYH14 at approximately 250 kDa. The expected band size for MYH14 is at 228 kDa.

Related Product Information for anti-MYH14 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-MYH14 antibody	Primary Antibodies

References	1. Choi, B.-O., Kang, S. H., Hyun, Y. S., Kanwal, S., Park, S. W., Koo, H., Kim, S.-B., Choi, Y.-C., Yoo, J. H., Kim, J.-W., Park, K. D., Choi, K.-G., Kim, S. J., Zuchner, S., Chung, K. W. A complex phenotype of peripheral neuropathy, myopathy, hoarseness, and hearing loss is linked to an autosomal dominant mutation in MYH14. Hum. Mutat. 32: 669-677, 2011.2. Donaudy, F., Snoeckx, R., Pfister, M., Zenner, H.-P., Blin, N., Di Stazio, M., Ferrara, A., Lanzara, C., Ficarella, R., Declau, F., Pusch, C. M., Nurnberg, P., Melchionda, S., Zelante, L., Ballana, E., Estivill, X., Van Camp, G., Gasparini, P., Savoia, A. Nonmuscle myosin heavy-chain gene MYH14 is expressed in cochlea and mutated in patients affected by autosomal dominant hearing impairment (DFNA4). Am. J. Hum. Genet. 74: 770-776, 2004. 3. Golomb, E., Ma, X., Jana, S. S., Preston, Y. A., Kawamoto, S., Shoham, N. G., Goldin, E., Conti, M. A., Sellers, J. R., Adelstein, R. S. Identification and characterization of nonmuscle myosin II-C, a new member of the myosin II family. J. Biol. Chem. 279: 2800-2808, 2004.
------------	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	116284396
NCBI GeneID	79784
NCBI Accession #	NP_001070654.1
NCBI GenBank Nucleotide #	NM_001077186.1
UniProt Accession #	Q7Z406; Q5CZ75; Q6XYE4; Q76B62; Q8WV23; Q96I22; Q9BT27; Q9BW35; Q9H882; B01S2; C3TTN4
Molecular Weight	227,871 Da
NCBI Official Full Name	myosin-14 isoform 1
NCBI Official Synonym Full Names	myosin, heavy chain 14, non-muscle
NCBI Official Symbol	MYH14
NCBI Official Synonym Symbols	DFNA4; MHC16; MYH17; PNMHH; DFNA4A; myosin; FP17425; NMHC II-C; NMHC-II-C
NCBI Protein Information	myosin-14; MYH14 variant protein; myosin, heavy polypeptide 14; non-muscle myosin heavy chain IIc; nonmuscle myosin heavy chain II-C; myosin heavy chain, non-muscle IIc
UniProt Protein Name	Myosin-14
UniProt Gene Name	MYH14
UniProt Synonym Gene Names	KIAA2034; NMHC II-C
UniProt Entry Name	MYH14_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.