

Rabbit MYL4 Polyclonal Antibody | anti-MYL4 antibody

Anti-MYL4 Antibody Picoband

CATALOG # AAA127529	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

MYL4; Polyclonal Antibody; Anti-MYL4 Antibody Picoband; Myosin light chain 4; MLC1; PRO1957; Myosin light chain 1; embryonic muscle/atrial isoform; Myosin light chain alkali GT-1 isoform; anti-MYL4 antibody

PRODUCT SPECIFICATIONS

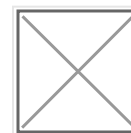
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-MYL4 antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human MYL4.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
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



WB (Western Blot)

Figure 2. Western blot analysis of MYL4 using anti-MYL4 antibody (AAA127529). 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 K562 whole cell lysates, Lane 2: rat heart 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-MYL4 antigen affinity purified polyclonal antibody (#AAA127529) 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 MYL4 at approximately 24 kDa. The expected band size for MYL4 is at 22 kDa.



WB (Western Blot)

Figure 1. Western blot analysis of MYL4 using anti-MYL4 antibody (AAA127529). 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: mouse heart 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-MYL4 antigen affinity purified polyclonal antibody (#AAA127529) 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 MYL4 at approximately 24 kDa. The expected band size for MYL4 is at 22 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MYL4 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-MYL4 antibody	Primary Antibodies
References	1. Cohen-Haguenauer, O., Barton, P. J. R., Van Cong, N., Cohen, A., Masset, M., Buckingham, M., Frezal, J. Chromosomal assignment of two myosin alkali light-chain genes encoding the ventricular/slow skeletal muscle isoform and the atrial/fetal muscle isoform (MYL3, MYL4). Hum. Genet. 81: 278-282, 1989.2. Orr, N., Arnaout, R., Gula, L. J., Spears, D. A., Leong-Sit, P., Li, Q., Tarhuni, W., Reischauer, S., Chauhan, V. S., Borkovich, M., Uppal, S., Adler, A., Coughlin, S. R., Stainier, D. Y. R., Gollob, M. H. A mutation in the atrial-specific myosin light chain gene (MYL4) causes familial atrial fibrillation. Nature Commun 7: 11303, 2016. Note: Electronic Article.3. Seharaseyon, J., Bober, E., Hsieh, C.-L., Fodor, W. L., Francke, U., Arnold, H.-H., Vanin, E. F. Human embryonic/atrial myosin alkali light chain gene: characterization, sequence and chromosomal location. Genomics 7: 289-293, 1990.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50845428
NCBI GeneID	4635
NCBI Accession #	NP_001002841.1
NCBI GenBank Nucleotide #	NM_001002841.1
UniProt Accession #	P12829; P11783; D3DXJ7
Molecular Weight	21,565 Da
NCBI Official Full Name	myosin light chain 4
NCBI Official Synonym Full Names	myosin, light chain 4, alkali; atrial, embryonic
NCBI Official Symbol	MYL4
NCBI Official Synonym Symbols	GT1; ALC1; AMLC; PRO1957
NCBI Protein Information	myosin light chain 4; myosin light chain 1, embryonic muscle/atrial isoform; myosin light chain alkali GT-1 isoform; myosin, atrial/fetal muscle, light chain; myosin, light polypeptide 4, alkali; atrial, embryonic
UniProt Protein Name	Myosin light chain 4
UniProt Gene Name	MYL4
UniProt Synonym Gene Names	MLC1
UniProt Entry Name	MYL4_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.