

Rabbit anti-Human MYLK3 Polyclonal Antibody | anti-MYLK3 antibody

Anti-MYLK3 Antibody Picoband

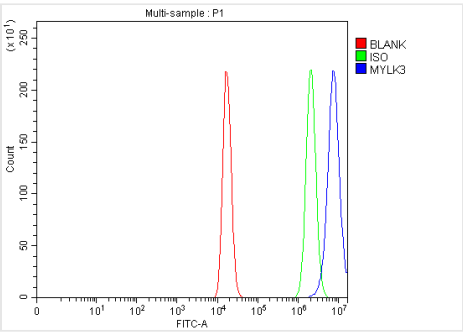
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127571	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

MYLK3; Polyclonal Antibody; Anti-MYLK3 Antibody Picoband; anti-MYLK3 antibody

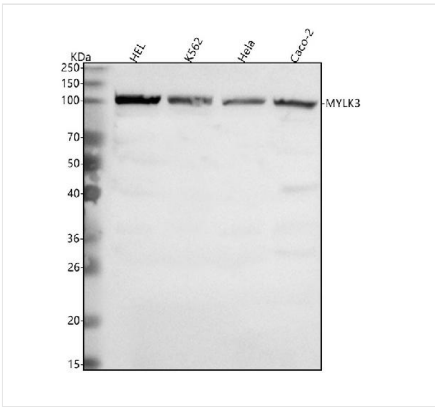
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
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-MYLK3 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human MYLK3 recombinant protein (Position: E34-K812). Human MYLK3 shares 68.8% and 66.8% amino acid (aa) sequence identity with mouse and rat MYLK3, respectively.
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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HEL cells using anti-MYLK3 antibody (AAA127571). Overlay histogram showing HEL cells stained with AAA127571 (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-MYLK3 Antibody (AAA127571, 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.



WB (Western Blot)

Figure 1. Western blot analysis of MYLK3 using anti-MYLK3 antibody (AAA127571). 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 HEL whole cell lysates, Lane 2: human K562 whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: human Caco-2 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-MYLK3 antigen affinity purified polyclonal antibody (#AAA127571) 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 MYLK3 at approximately 100 kDa. The expected band size for MYLK3 is at 88 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MYLK3 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-MYLK3 antibody	Primary Antibodies
References	1. Chan, J. Y., Takeda, M., Briggs, L. E., Graham, M. L., Lu, J. T., Horikoshi, N., Weinberg, E. O., Aoki, H., Sato, N., Chien, K. R., Kasahara, H. Identification of cardiac-specific myosin light chain kinase. Circ. Res. 102: 571-580, 2008. 2. Hartz, P. A. Personal Communication. Baltimore, Md. 6/30/2008. 3. Seguchi, O., Takashima, S., Yamazaki, S., Asakura, M., Asano, Y., Shintani, Y., Wakeno, M., Minamino, T., Kondo, H., Furukawa, H., Nakamura, K., Naito, A., Takahashi, T., Ohtsuka, T., Kawakami, K., Isomura, T., Kitamura, S., Tomoike, H., Mochizuki, N., Kitakaze, M. A cardiac myosin light chain kinase regulates sarcomere assembly in the vertebrate heart. J. Clin. Invest. 117: 2812-2824, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	815930021
NCBI GeneID	91807
NCBI Accession #	NP_001295230.1
NCBI GenBank Nucleotide #	NM_001308301.1
UniProt Accession #	Q32MK0; Q32MK1; Q96DV1; B5BUL9; B7Z5U8
Molecular Weight	52,723 Da
NCBI Official Full Name	myosin light chain kinase 3 isoform 2
NCBI Official Synonym Full Names	myosin light chain kinase 3

NCBI Official Symbol	MYLK3
NCBI Official Synonym Symbols	MLCK; MLCK2; caMLCK
NCBI Protein Information	myosin light chain kinase 3
UniProt Protein Name	Myosin light chain kinase 3
UniProt Gene Name	MYLK3
UniProt Synonym Gene Names	MLCK; Cardiac-MLCK

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://www.aaabiotech.com/polyclonal/mylk3-antibody-flow-cytometry-western-blot-elisa/127571>