

Rabbit NEBL Polyclonal Antibody | anti-NEBL antibody

Anti-NEBL Antibody Picoband

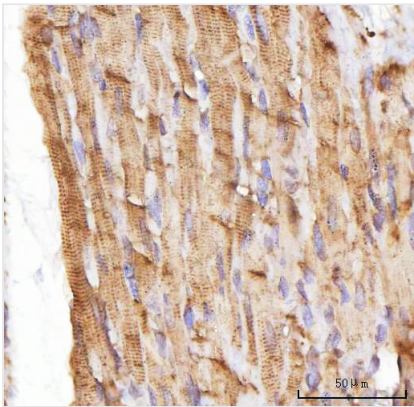
CATALOG # AAA127546	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

NEBL; Polyclonal Antibody; Anti-NEBL Antibody Picoband; protein phosphatase; Mg²⁺/Mn²⁺ dependent 1E; Protein phosphatase 1E; Ca (2+)/calmodulin-dependent protein kinase phosphatase N; CaMKP-N; CaMKP-nucleus; CaMKN; Partner of PIX 1; Partner of PIX-alpha; Partner of PIXA; PPM1E; CAMKN; KIAA1072; POPX1; anti-NEBL antibody

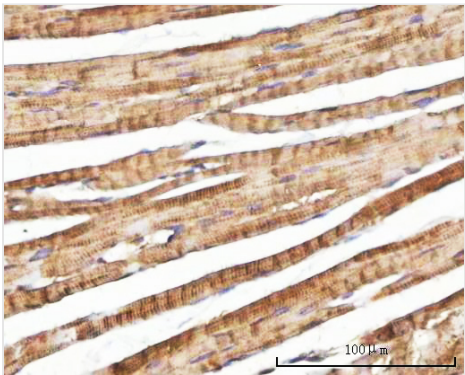
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in fetal and adult brain. Also detected in fetal liver and skeletal muscle, but not in their adult counterparts.
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-NEBL antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human NEBL recombinant protein (Position: E86-K842).
Subcellular Localization	Nucleus, Cytoplasm
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	Protein phosphatase that inactivates multifunctional CaM kinases such as CAMK4 and CAMK2. Dephosphorylates and inactivates PAK. May play a role in the inhibition of actin fiber stress breakdown and in morphological changes driven by TNK2/CDC42. Dephosphorylates PRKAA2.
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.



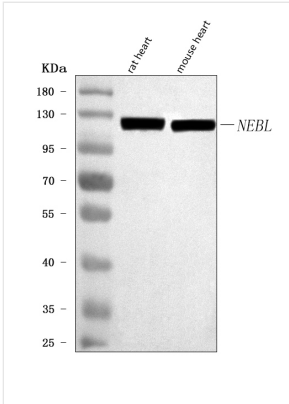
IHC (Immunohistochemistry)

Figure 3. IHC analysis of NEBL using anti-NEBL antibody (AAA127546).NEBL was detected in a paraffin-embedded section of rat heart 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-NEBL Antibody (AAA127546) 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 with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of NEBL using anti-NEBL antibody (AAA127546).NEBL was detected in a paraffin-embedded section of mouse heart 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-NEBL Antibody (AAA127546) 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 with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of NEBL using anti-NEBL antibody (AAA127546).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: rat heart tissue lysates,Lane 2: 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-NEBL antigen affinity purified polyclonal antibody (#AAA127546) at 0.25ug/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 NEBL at approximately 126 kDa. The expected band size for NEBL is at 116,126 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NEBL 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-NEBL antibody	Primary Antibodies; Growth Factors/Hormones; Signal Transduction

References	1. Arimura, T., Nakamura, T., Hiroi, S., Satoh, M., Takahashi, M., Ohbuchi, N., Ueda, K., Nouchi, T., Yamaguchi, N., Akai, J., Matsumori, A., Sasayama, S., Kimura, A. Characterization of the human nebulette gene: a polymorphism in an actin-binding motif is associated with nonfamilial idiopathic dilated cardiomyopathy. Hum. Genet. 107: 440-451, 2000. 2. Li, B., Zhuang, L., Trueb, B. Zyxin interacts with the SH3 domains of the cytoskeletal proteins LIM-nebulette and Lasp-1. J. Biol. Chem. 279: 20401-20410, 2004. 3. Millevoi, S., Trombitas, K., Kolmerer, B., Kostin, S., Schaper, J., Pelin, K., Granzier, H., Labeit, S. Characterization of nebulette and nebulin and emerging concepts of their roles for vertebrate Z-discs. J. Molec. Biol. 282: 111-123, 1998.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	291190154
NCBI GeneID	10529
NCBI Accession #	NP_001166955.1
NCBI GenBank Nucleotide #	NM_001173484.1
UniProt Accession #	O76041; Q2TBD0; Q70I54; Q9UIC4; B0YJ45
Molecular Weight	116,453 Da
NCBI Official Full Name	nebulette isoform 3
NCBI Official Synonym Full Names	nebulette
NCBI Official Symbol	NEBL
NCBI Official Synonym Symbols	LASP2; LNEBL
NCBI Protein Information	nebulette; LIM-nebulette; actin-binding Z-disk protein
UniProt Protein Name	Nebulette
UniProt Gene Name	NEBL
UniProt Synonym Gene Names	LNEBL
UniProt Entry Name	NEBL_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.