

**Anti-Dystrophin Picoband Antibody**  
**Catalog # ABO11967****Specification**

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**Anti-Dystrophin Picoband Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P11532</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Dystrophin(DMD) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Dystrophin Picoband Antibody - Additional Information**

**Gene ID** 1756

**Other Names**

Dystrophin, DMD

**Calculated MW**

426750 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, Boster's SuperVision kit<br>Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat , Boster's ECL kit<br>

**Subcellular Localization**

Cell membrane, sarcolemma; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytoskeleton. Cell junction, synapse, postsynaptic cell membrane . In muscle cells, sarcolemma localization requires the presence of ANK2, while localization to costameres requires the presence of ANK3. Localizes to neuromuscular junctions (NMJs) in the presence of ANK2 (By similarity). .

**Tissue Specificity**

Expressed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma. Expressed in brain, muscle, kidney, lung and testis. Isoform 5 is expressed in heart, brain, liver, testis and hepatoma cells. Most tissues contain transcripts of multiple isoforms, however only isoform 5 is detected in heart and liver. .

**Protein Name**

Dystrophin

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

E.coli-derived human Dystrophin recombinant protein (Position: H3076-D3404). Human Dystrophin shares 100% amino acid (aa) sequence identity with mouse Dystrophin.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Contains 2 CH (calponin-homology) domains.

**Anti-Dystrophin Picoband Antibody - Protein Information**

**Name** DMD ([HGNC:2928](#))

**Function**

Anchors the extracellular matrix to the cytoskeleton via F- actin. Ligand for dystroglycan. Component of the dystrophin-associated glycoprotein complex which accumulates at the neuromuscular junction (NMJ) and at a variety of synapses in the peripheral and central nervous systems and has a structural function in stabilizing the sarcolemma. Also implicated in signaling events and synaptic transmission.

**Cellular Location**

Cell membrane, sarcolemma {ECO:0000250|UniProtKB:P11531}; Peripheral membrane protein {ECO:0000250|UniProtKB:P11531}; Cytoplasmic side {ECO:0000250|UniProtKB:P11531}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P11531}. Postsynaptic cell membrane {ECO:0000250|UniProtKB:P11531}. Note=In muscle cells, sarcolemma localization requires the presence of ANK2, while localization to costameres requires the presence of ANK3. Localizes to neuromuscular junctions (NMJs). In adult muscle, NMJ localization depends upon ANK2 presence, but not in newborn animals. {ECO:0000250|UniProtKB:P11531}

**Tissue Location**

Expressed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma. Expressed in brain, muscle, kidney, lung and testis. Most tissues contain transcripts of multiple isoforms. Isoform 15: Only isoform to be detected in heart and liver and is also expressed in brain, testis and hepatoma cells

**Anti-Dystrophin Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

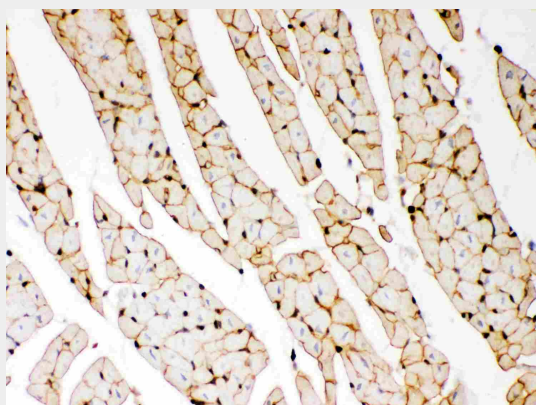
## Anti-Dystrophin Picoband Antibody - Images



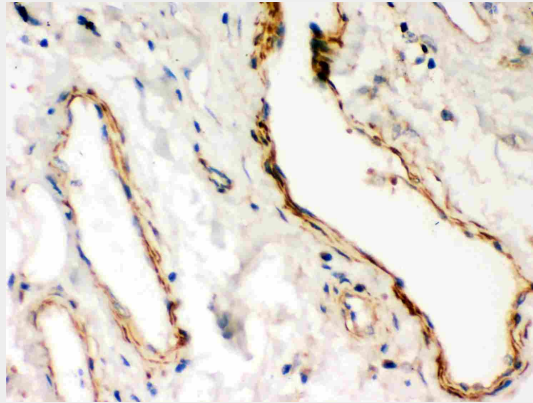
Anti- Dystrophin Picoband antibody, ABO11967, Western blotting  
All lanes: Anti Dystrophin (ABO11967) at 0.5ug/ml  
Lane 1: SMMC Whole Cell Lysate at 40ug  
Lane 2: HEPA Whole Cell Lysate at 40ug  
Predicted bind size: 427KD  
Observed bind size: 427KD



Anti- Dystrophin Picoband antibody, ABO11967, IHC(P) IHC(P): Mouse Brain Tissue



Anti- Dystrophin Picoband antibody, ABO11967, IHC(P) IHC(P): Rat Cardiac Muscle Tissue



Anti- Dystrophin Picoband antibody, ABO11967, IHC(P)IHC(P): Human Lung Cancer Tissue

#### **Anti-Dystrophin Picoband Antibody - Background**

Dystrophin, also known as DMD, is a rod-shaped cytoplasmic protein, and a vital part of a protein complex that connects the cytoskeleton of a muscle fiber to the surrounding extracellular matrix through the cell membrane. It is mapped to Xp21.2-p21.1. This complex is variously known as the costamere or the dystrophin-associated protein complex. Many muscle proteins, such as  $\beta$ -dystrobrevin, syncoilin, synemin, sarcoglycan, dystroglycan, and sarcospan, colocalize with dystrophin at the costamere. Dystrophin is a protein located between the sarcolemma and the outermost layer of myofilaments in the muscle fiber (myofiber). It is a cohesive protein, linking actin filaments to another support protein that resides on the inside surface of each muscle fiber's plasma membrane (sarcolemma).