Rabbit anti Dystrophin Polyclonal Antibody

Alternative Name(s): Dystrophin; DMD; Dp140bc

Order Information

- **Description:** Dystrophin
- **Catalogue:** 630-170
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms,

ANTIGEN PREPARATION

A synthetic peptide corresponding to the intra domain 410-450aa of human Dystrophin protein. This sequence is identical to mouse and Pan troglodytes and other species.

BACKGROUND

The dystrophin gene is the largest gene found in nature. The gene was identified through a positional cloning approach, targeted at the isolation of the gene responsible for Duchenne (DMD) and Becker (BMD) Muscular Dystrophies. DMD is a recessive, fatal, X-linked disorder occurring at a frequency of about 1 in 3,500 new-born males. BMD is a milder allelic form. In general, DMD patients carry mutations which cause premature translation termination (nonsense or frame shift mutations), while in BMD patients dystrophin is reduced either in molecular weight (derived from in-frame deletions) or in expression level. The dystrophin gene is highly complex, containing at least eight independent, tissue-specific promoters and two polyA-addition sites. Furthermore, dystrophin RNA is differentially spliced, producing a range of different transcripts, encoding a large set of protein isoforms. Dystrophin (as encoded by the Dp427 transcripts) is a large, rod-like cytoskeletal protein which is found at the inner surface of muscle fibers. Dystrophin is part of the dystrophin-glycoprotein complex (DGC), which bridges the inner cytoskeleton (F-actin) and the extra-cellular matrix. IHC staining of normal muscle tissue results in clear labeling confined to the periphery (plasma membrane) of normal muscle fibers. The product exhibits wide interspecies cross-reactivity.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes dystrophine isoforms. It reacts with human and mouse origins. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: >110
- Positive Control: Kidney Tissue

FOR RESEARCH USE ONLY.

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• Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

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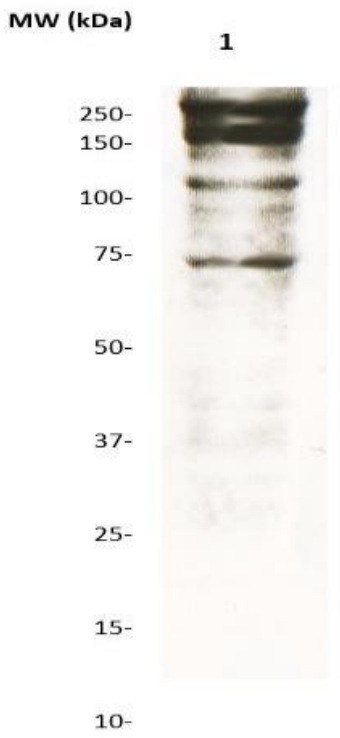
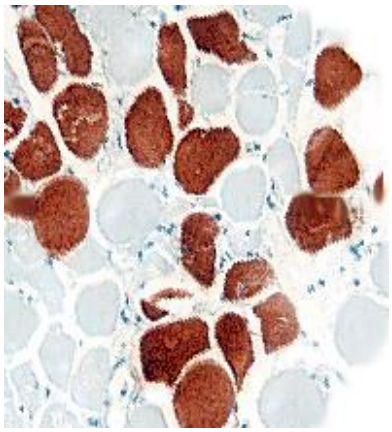
DATA ATTACHMENTS



Western Blot: The tissue lysate derived from mouse skeletal muscle was immuno-blotted by Rabbit anti Dystrophin (Cat#630-170) at 1:500. Multiple bands between 71kDa-250 kDa were observed.



Immunohistochemistry: Mouse skeletal muscle (FFPE) stained with Rabbit anti - Dystrophin antibody, (Cat# 630-170) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES