

Rabbit anti-Human, Mouse Dystrophin Polyclonal Antibody | anti-DMD antibody

Rabbit anti Dystrophin Polyclonal Antibody

CATALOG # AAA14077	HOST Rabbit	REACTIVITY Human, Mouse	APPLICATIONS Western Blot
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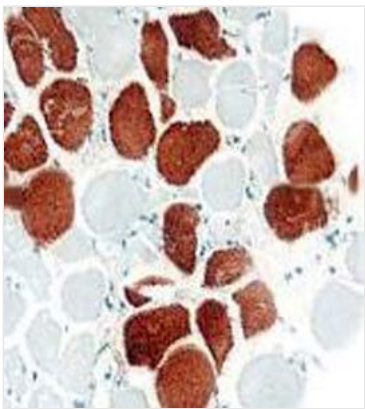
PRODUCT SYNONYMS

Dystrophin; Polyclonal Antibody; Rabbit anti Dystrophin Polyclonal Antibody; DMD; Dp140bc; anti-DMD antibody

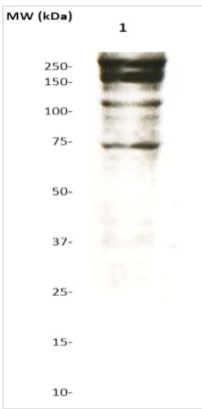
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	This antibody recognizes dystrophine isoforms. It reacts with human and mouse origins. The other species are not tested.
Purity/Purification	The Rabbit IgG is purified by Epitope Affinity purification.
Form/Format	The affinity purified antibody is supplied in sterile phosphate buffered saline (pH 7.2) containing antibody stabilizer.
Applicable Applications for anti-DMD antibody	WB (Western Blot)
Application Notes	Western Blot 0.1-1 ug/ml ELISA 0.01- 0.1 ug/ml Immunoprecipitation 2-5 ug/ml Immunohistochemistry 2-10 ug/ml Optimal dilutions should be determined by researchers for the specific applications.
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.
Positive Control	Kidney Tissue
Preparation and Storage	The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2-8°C for three months without detectable loss of activity. Avoid repeated freezing-thawing cycles.

IMAGES



IHC (Immunohistochemistry)
Immunohistochemistry (IHC) Mouse skeletal muscle stained with Rabbit anti - Dystrophin antibody, (AAA14077) 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.



WB (Western Blot)
Western Blot: The tissue lysate derived from mouse skeletal muscle was immuno-blotted by Rabbit anti Dystrophin (AAA14077) at 1:500. Multiple bands between 71kDa-250 kDa were observed.

ADDITIONAL INFORMATION

Related Product Information for anti-DMD antibody	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.
References	Sarkis, J., et al. Spectrin-like repeats 11-15 of human dystrophin show adaptations to a lipidic environment. J. Biol. Chem. 286 (35), 30481-30491 (2011).

NCBI AND UNIPROT INFORMATION

NCBI GI #	241110
Molecular Weight	>110
NCBI Official Full Name	dystrophin, partial
NCBI Official Synonym Full Names	dystrophin
NCBI Official Symbol	DMD
NCBI Official Synonym Symbols	BMD; CMD3B; MRX85; DXS142; DXS164; DXS206; DXS230; DXS239; DXS268; DXS269; DXS270; DXS272
NCBI Protein Information	dystrophin
UniProt Protein Name	Dystrophin
UniProt Gene Name	DMD

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.

