Mouse anti-Human Dystrophin (DMD) Monoclonal Antibody | anti-DMD antibody

Dystrophin (DMD) (Marker of Duchenne and Becker Muscular Dystrophy)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA333002	**Mouse**	**Human**	**ELISA, Immunohistochemistry**

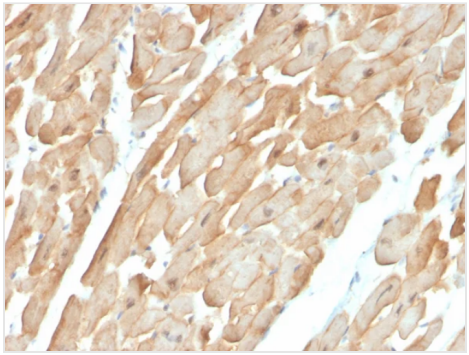
PRODUCT SYNONYMS

Dystrophin (DMD); Monoclonal Antibody; Dystrophin (DMD) (Marker of Duchenne and Becker Muscular Dystrophy); BMD; CMD3B; Duchenne muscular dystrophy (DMD); Dystrophin; Muscular dystrophy Duchenne and Becker types; anti-DMD antibody

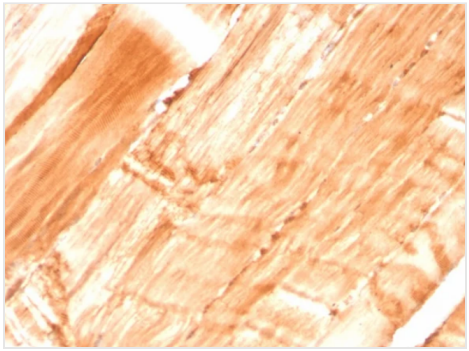
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG, kappa
Clone Number	DMD/3677
Specificity	Dystrophin-glycoprotein complex (DGC) connects the F-Actin cytoskeleton on the inner surface of muscle fibers to the surrounding extracellular matrix, through the cell membrane interface. A deficiency in this protein contributes to Duchenne (DMD) and Becker (BMD) muscular dystrophies. The human dystrophin gene measures 2.4 megabases, has more than 80 exons, produces a 14 kb mRNA and contains at least 8 independent tissue-specific promoters and 2 poly A sites. The dystrophin mRNA can undergo differential splicing and produce a range of transcripts that encode a large set of proteins. Dystrophin represents approximately 0.002% of total striated muscle protein and localizes to triadic junctions in skeletal muscle, where it is thought to influence calcium ion homeostasis and force transmission.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	3685
Applicable Applications for anti-DMD antibody	ELISA (EIA), Immunohistochemistry (IHC) Paraffin
Application Notes	ELISA: For coating, order Ab without BSA IHC-P: 1-2ug/ml for 30 minutes at RT Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 degree C followed by cooling at RT for 20 minutes
Immunogen	A recombinant fragment (around aa 114-263) of Human DMD protein (exact sequence is proprietary)
Cellular Localization	Cell Surfaceand Cytoplasmic
Hu-chromosome Location	Xp21.2
Positive Control	Human skeletal muscle and Heart muscle tissues (IHC).
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

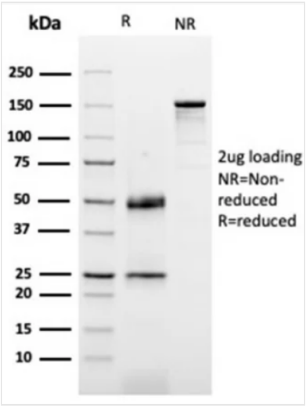
IMAGES



Immunohistochemistry (IHC)-Formalin
Formalin-fixed, paraffin-embedded human cardiac muscle stained with Dystrophin Mouse Monoclonal Antibody (DMD/3677).



Immunohistochemistry (IHC)-Formallin
Formalin-fixed, paraffin-embedded human Skeletal Muscle stained with Dystrophin Monospecific Mouse Monoclonal Antibody (DMD/3677).



SDS-Page
SDS-PAGE Analysis Purified Dystrophin Monospecific Mouse Monoclonal Antibody (DMD/3677). Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

References	Blake DJ, et al. (2002)Function and genetics of dystrophin and dystrophin-related proteins in muscle.Physiol Rev82:291-329.

NCBI AND UNIPROT INFORMATION

NCBI GI #	313104240
NCBI GeneID	1756
UniProt Accession #	P11532
Molecular Weight	427kDa
NCBI Official Full Name	Dystrophin
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**

UniProt Entry Name	DMD_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.

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Online datasheet: https://www.aaabiotech.com/monoclonal/dystrophin-dmd-antibody-clone-dmd-3677-eia-ihc-elisa/333002