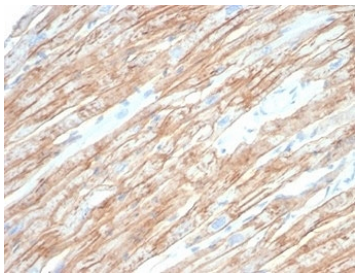
DMD Antibody / Dystrophin [clone DMD/6270] (V4009)

Catalog No.	Formulation	Size
V4009-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4009-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4009SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	DMD/6270
Purity	Protein A/G affinity
UniProt	P11532
Localization	Cell surface, cytoplasm
Applications	Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This DMD antibody is available for research use only.



DMD Antibody Heart IHC. Immunohistochemistry staining of FFPE human heart tissue with DMD antibody (clone DMD/6270). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

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.

This DMD antibody can be compared with our Dystrophin Antibody (clone DMD/3241) for analysis of dystrophin expression across muscle structure and neuromuscular disease studies.

Application Notes

Optimal dilution of the DMD antibody should be determined by the researcher.

Immunogen

A portion of amino acids 1700-2300 from the human Dystrophin was used as the immunogen for the DMD antibody.

Storage

Aliquot the DMD antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.