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36-2167: Anti-Dystrophin (DMD) (Marker of Duchenne and Becker Muscular Dystrophy) Monoclonal Antibody(Clone: DMD/3243)

Clonality :	Monoclonal
Clone Name :	DMD/3243
Application :	ELISA,IHC
Reactivity :	Human
Gene :	DMD
Gene ID :	1756
Uniprot ID :	P11532
Alternative Name :	BMD; CMD3B; Duchenne muscular dystrophy (DMD); Dystrophin; Muscular dystrophy Duchenne and Becker types
Isotype :	Mouse IgG1, kappa
Immunogen Information :	A recombinant fragment (around aa 114-263) of human DMD protein (exact sequence is proprietary)

Description

Dystrophin-glycoprotein complex (DGC) connects the F-Actin cytoskeleton on the inner surface of muscle fibers to the surrounding extracellular matrix, throÂµgh 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 thoÂµght to influence calcium ion homeostasis and force transmission.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/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.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

ELISA (For coating, order Ab without BSA);,Immunohistochemistry (Formalin-fixed) (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&degC followed by cooling at RT for 20 minutes);

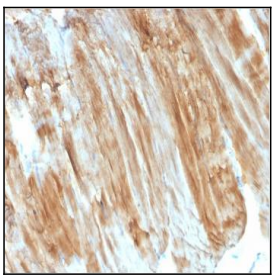

Fig. 1: Formalin-fixed, paraffin-embedded human Skeletal Muscle stained with Dystrophin Monospecific Mouse Monoclonal Antibody (DMD/3243).

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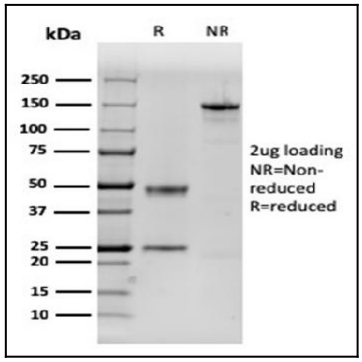

Fig. 2: SDS-PAGE Analysis Purified Dystrophin Monospecific Mouse Monoclonal Antibody (DMD/3243). Confirmation of Purity and Integrity of Antibody.

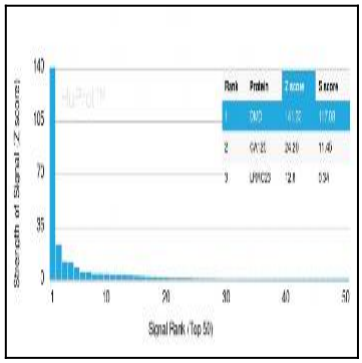

Fig. 3: Analysis of Protein Array containing more than 19,000 full-length human proteins using Dystrophin Monospecific Mouse Monoclonal Antibody (DMD/3243). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.