Datasheet for ABIN6939241

anti-Dystrophin antibody (AA 114-263)

3 Images

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Overview

Quantity:	100 µg
Target:	Dystrophin (DMD)
Binding Specificity:	AA 114-263
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Immunohistochemistry (IHC), ELISA, Coating (Coat), Staining Methods (StM)

Product Details

Immunogen:	A recombinant fragment (around aa 114-263) of human DMD protein (exact sequence is proprietary)
Clone:	DMD-3241
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	Dystrophin (DMD)
Alternative Name:	DMD (DMD Products)
Background:	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

Target Details

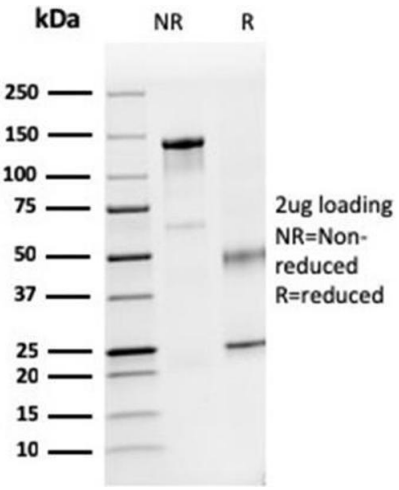
	dystrophies. The human dystrophin gene measures 2.4 megabases, has more than 80 exons, produces a 14 kb mRNA and contains at least 8 independent tissue-specific promoters and 2 poly A sites. The dystrophin mRNA can undergo differential splicing and produce a range of transcripts that encode a large set 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.
Molecular Weight:	427kDa
Gene ID:	1756
UniProt:	P11532
Pathways:	Skeletal Muscle Fiber Development

Application Details

Application Notes:	Positive Control: Human skeletal muscle and heart muscle tissues (IHC). Known Application: ELISA (For coating, order Ab without BSA),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

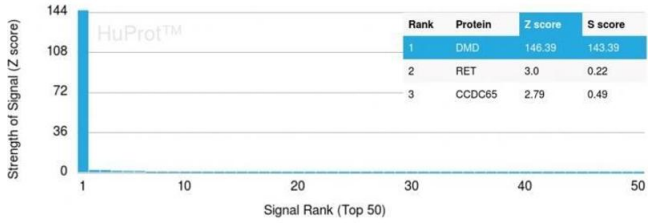
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	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. No MSDS required.
Expiry Date:	24 months



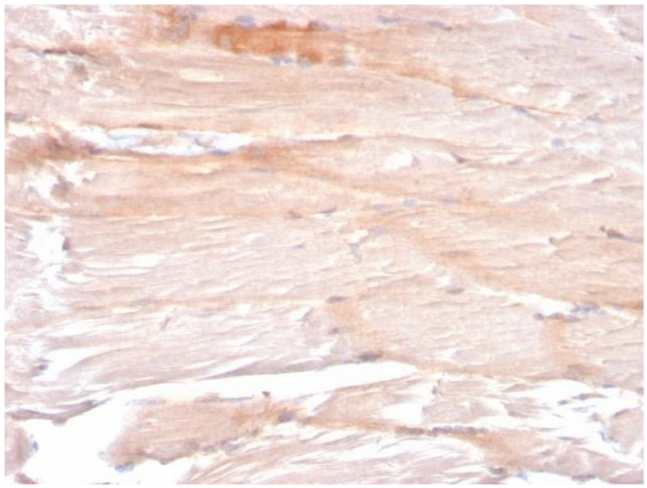
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified Dystrophin Monospecific Mouse Monoclonal Antibody (DMD/3241). Confirmation of Purity and Integrity of Antibody.



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Dystrophin Monospecific Mouse Monoclonal Antibody (DMD/3241). 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 (SDs) 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 SDs) 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.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Skeletal Muscle stained with Dystrophin Monospecific Mouse Monoclonal Antibody (DMD/3241).