

Mouse MyoD1 Monoclonal Antibody | anti-MyoD1 antibody

MyoD1 (Rhabdomyosarcoma Marker)

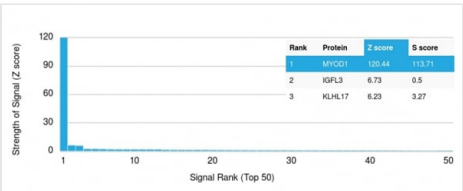
CATALOG # AAA214461	HOST Mouse	REACTIVITY Human. Others not known.	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

MyoD1; Monoclonal Antibody; MyoD1 (Rhabdomyosarcoma Marker); bHLHc1; Class C basic helix-loop-helix protein 1; Myoblast determination protein 1; Myogenic differentiation 1; Myogenic factor 3 (Myf-3); Myogenin D1; PUM; anti-MyoD1 antibody

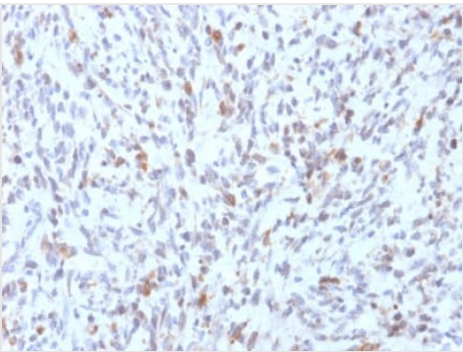
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	rMYD712
Specificity	Recognizes a phosphor-protein of 45kDa, identified as MyoD1. This MAb does not cross react with myogenin, Myf5, or Myf6. Antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues. MyoD1 is not detected in normal adult tissue, but is highly expressed in the tumor cell nuclei of rhabdomyosarcomas. Occasionally nuclear expression of MyoD1 is seen in ectomesenchymoma and a subset of Wilms tumors. Weak cytoplasmic staining is observed in several non-muscle tissues, including glandular epithelium and also in rhabdomyosarcomas, neuroblastomas, Ewings sarcomas and alveolar soft part sarcomas.
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 at 1.0mg/ml.
Sequence Length	320
Applicable Applications for anti-MyoD1 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant full-length human MyoD1 protein
Cellular Localization	Nuclear. Only nuclear staining should be considered as evidence of skeletal muscle differentiation.
Hu-chromosome Location	11p15.1
Positive Control	Rhabdomyosarcoma
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.

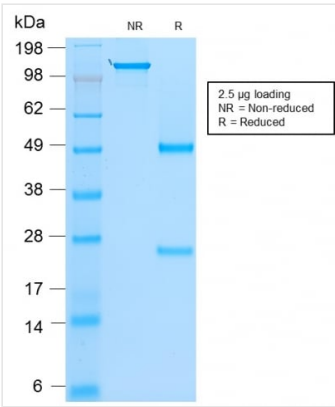


Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using MyoD1 Mouse Recombinant Monoclonal Antibody (rMYD712). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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 HuProt™ 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 MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb 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 MAb to protein X is equal to 29.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with MyoD1 Mouse Recombinant Monoclonal Antibody (rMYD712).



SDS-PAGE
SDS-PAGE Analysis Purified MyoD1 Mouse Recombinant Monoclonal Antibody (rMYD712).

ADDITIONAL INFORMATION

References	Parham DM et. al. Acta Neuropathologica, 1994, 87:605-11. Wesche WA et. al. American Journal of Surgical Pathology, 1995, 19(3):261-9. Thulasi R et. al. Cell Growth and Differentiation, 1996, 7(4):531-41.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	23111009
NCBI GeneID	4654
NCBI Accession #	NP_002469.2
NCBI GenBank Nucleotide #	NM_002478.4
UniProt Accession #	P15172; O75321
Molecular Weight	45kDa
NCBI Official Full Name	myoblast determination protein 1
NCBI Official Synonym Full Names	myogenic differentiation 1
NCBI Official Symbol	MYOD1
NCBI Official Synonym Symbols	PUM; MYF3; MYOD; bHLHc1
NCBI Protein Information	myoblast determination protein 1

UniProt Protein Name	Myoblast determination protein 1
UniProt Gene Name	MYOD1
UniProt Synonym Gene Names	BHLHC1; MYF3; MYOD; bHLHc1; Myf-3

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://stage.aaabiotech.com/monoclonal/myod1-antibody-clone-rmyd712-immunohistochemistry-elisa/214461>