

Rabbit anti-Human MyoD1 Polyclonal Antibody | anti-MYOD1 antibody

MyoD1 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289893	Rabbit	Human	Western Blot, ELISA, Immunofluorescence

PRODUCT SYNONYMS

MyoD1; Polyclonal Antibody; MyoD1 Antibody (Center); Myoblast determination protein 1; Class C basic helix-loop-helix protein 1; bHLHc1; Myogenic factor 3; Myf-3; MYOD1; BHLHC1; MYF3; MYOD; anti-MYOD1 antibody

PRODUCT SPECIFICATIONS

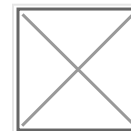
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This MyoD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 211-240 amino acids from the Central region of human MyoD1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.47 (varies by lot)
Sequence Positions	211-240
Sequence Length	320
Applicable Applications for anti-MYOD1 antibody	WB (Western Blot), ELISA, IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Fluorescent confocal image of HeLa cell stained with MyoD1 Antibody (Center). HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with MyoD1 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7 units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). MyoD1 immunoreactivity is localized to nucleus significantly.



WB (Western Blot)

MyoD1 Antibody (Center) western blot analysis in HeLa cell line and human placenta tissue lysates (35 ug/lane). This demonstrates the MyoD1 antibody detected the MyoD1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-MYOD1 antibody	This gene encodes a nuclear protein that belongs to the basic helix-loop-helix family of transcription factors and the myogenic factors subfamily. It regulates muscle cell differentiation by inducing cell cycle arrest, a prerequisite for myogenic initiation. The protein is also involved in muscle regeneration. It activates its own transcription which may stabilize commitment to myogenesis.
Product Categories/Family for anti-MYOD1 antibody	Crown Antibodies; Developmental Biology; Immunology; Signal Transduction
References	Xynos, A., et al. Stem Cells 28(5):965-973(2010) Stuelsatz, P., et al. J. Biol. Chem. 285(17):12670-12683(2010) Hiraoka, S., et al. Hum. Pathol. 41(1):38-47(2010) Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009) Yang, Z., et al. Genes Dev. 23(6):694-707(2009)

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	34501
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
UniProt Entry Name	MYOD1_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://stage.aaabiotech.com/polyclonal/myod1-antibody-western-blot-immunofluorescence-elisa/289893>