



MyoD1 (ABT-MYOD1) mouse mAb

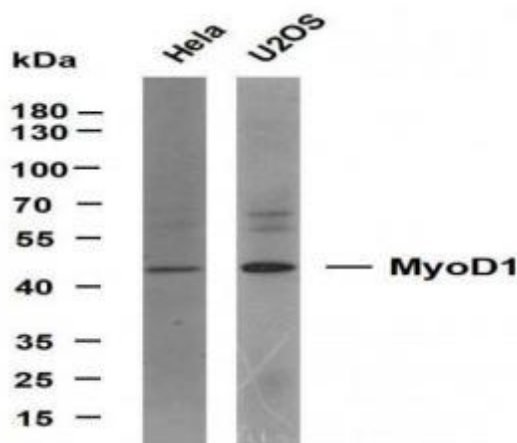
Catalog No	YP-Ab-18214
Isotype	IgG
Reactivity	Human;Mouse;Rat;
Applications	IHC;IF;ELISA;WB
Gene Name	MYOD1 BHLHC1 MYF3 MYOD
Target	MyoD
Fields	>>Spinocerebellar ataxia
Protein Name	Myoblast determination protein 1 (Class C basic helix-loop-helix protein 1) (bHLHc1) (Myogenic factor 3) (Myf-3)
Molecular Weight	35kD
Observed Band	45kD
Subcellular Location	Nuclear
Dilution	IHC 1:100-500. WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000
Immunogen	Synthesized peptide derived from human MyoD1 AA range: 100-200
Specificity	This antibody detects endogenous levels of MyoD1 protein.
Purification	Protein G
Source	Mouse, Monoclonal/IgG2b, kappa
Form	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Background	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. [provided by RefSeq, Jul 2008],
Function	function:Involved in muscle differentiation (myogenic factor). Induces fibroblasts to differentiate into myoblasts. Activates muscle-specific promoters. Interacts with and is inhibited by the twist protein. This interaction probably involves the basic domains of both proteins.,online information:MyoDentry,PTM:Acetylated by a complex containing EP300 and PCAF. The acetylation is essential to activate target genes. Conversely, its deacetylation by SIRT1 inhibits its function.,PTM:Ubiquitinated on the N-terminus; which is required for proteasomal degradation.,similarity:Contains 1 basic helix-loop-helix (bHLH)



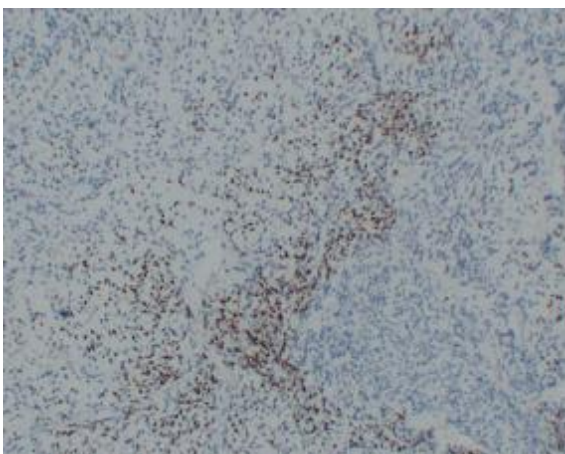
domain.,subunit:Efficient DNA binding requires dimerization with another bHLH protein. Seems to form active heterodimers with ITF-2. Interacts with SUV39H1.,

Concentration	1 mg/ml
Purity	≥90%
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Expression	Muscle,Skeletal muscle,
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



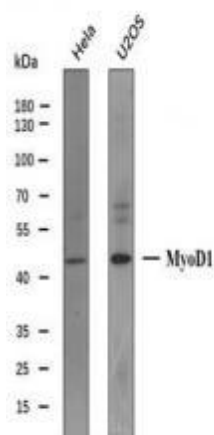
Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-MyoD1(ABT-MYOD1) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: U2OS



Immunohistochemical analysis of paraffin-embedded Rhabdomyosarcoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Citrate buffer of pH6.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Western blot analysis of MyoD1 Antibody at 1:1000 dilution.



Various whole cell lysates (30ug) were separated by 10% SDS-PAGE, and the membrane was blotted with MyoD1 antibody. The HRP-conjugated anti-Mouse IgG antibody was used to detect the antibody.

Predicted band size: 35kDa
Observed band size: 45kDa