

MyoD1 (ABT-MYOD1) mouse mAb

Catalog No :	YM4945
Reactivity :	Human;Mouse;Rat;
Applications :	IHC;IF;ELISA
Target :	MyoD
Fields :	>>Spinocerebellar ataxia
Gene Name :	MYOD1 BHLHC1 MYF3 MYOD
Protein Name :	Myoblast determination protein 1 (Class C basic helix-loop-helix protein 1) (bHLHc1) (Myogenic factor 3) (Myf-3)
Human Gene Id :	4654
Human Swiss Prot No :	P15172
Immunogen :	Synthesized peptide derived from human MyoD1 AA range: 100-200
Specificity :	This antibody detects endogenous levels of MyoD1 protein.
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Mouse, Monoclonal/IgG2b, kappa
Dilution :	IHC 1:100-500. WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000
Purification :	Protein G
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	35kD
Observed Band :	45kD

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],

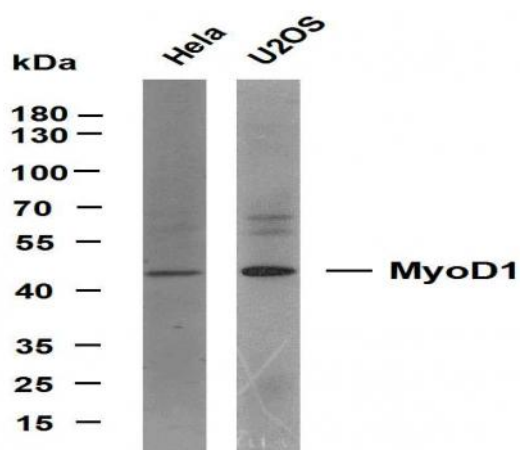
Function : function:Involved in muscle differentiation (myogenic factor). Induces fibroblasts to differentiate into myoblasts. Activates muscle-specific promoters. Interacts with and is inhibited by the twist protein. This interaction probably involves the basic domains of both proteins.,online information:MyoD entry,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.,

Subcellular Location : Nuclear

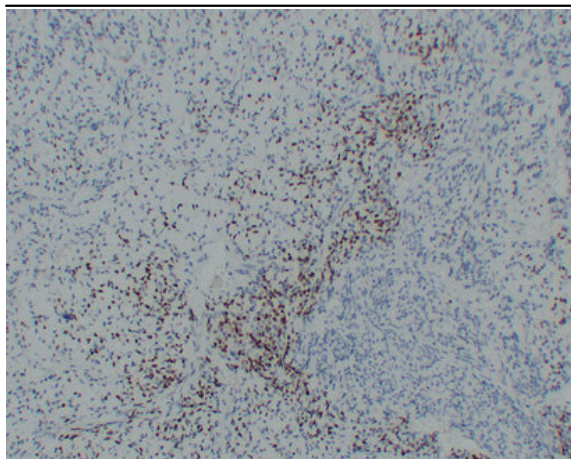
Expression :

Muscle,Skeletal muscle,

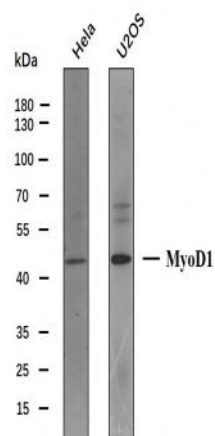
Products Images



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).



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

Western blot analysis of MyoD1Antibody at 1:1000 dilution.