



MyoD Monoclonal Antibody

Catalog No	YP-mAb-02239
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	MYOD1
Immunogen	The antiserum was produced against synthesized peptide derived from human MyoD around the non-acetylation site of Lys99/102. AA range:61-110
Specificity	MyoD Monoclonal Antibody detects endogenous levels of MyoD protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	bHLHc1;Class C basic helix-loop-helix protein 1;Myf 3;MYF3;Myf-3;MyoD; MYOD1;Myoblast determination protein 1;Myogenic factor 3
Observed Band	35kD
Calculated Molecular Weight	35kD
Cell Pathway	Nucleus.
Tissue Specificity	Muscle,Skeletal muscle,
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.,



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],

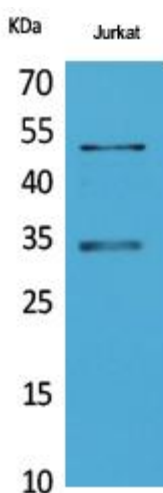
matters needing attention

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



Western Blot analysis of various cells using MyoD Monoclonal Antibody