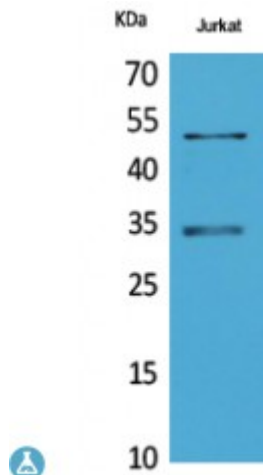


Anti-MyoD antibody



Description	Rabbit polyclonal to MyoD.
Model	STJ96701
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human MyoD around the non-acetylation site of K99/K102.
Gene ID	4654
Gene Symbol	MYOD1
Dilution range	WB 1:500-1:2000ELISA 1:20000
Specificity	MyoD Polyclonal Antibody detects endogenous levels of MyoD protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Myoblast determination protein 1 Class C basic helix-loop-helix protein 1 bHLHc1 Myogenic factor 3 Myf-3
Molecular Weight	35 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG

Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:7611OMIM:159970
Alternative Names	Myoblast determination protein 1 Class C basic helix-loop-helix protein 1 bHLHc1 Myogenic factor 3 Myf-3
Function	Acts as a transcriptional activator that promotes transcription of muscle-specific target genes and plays a role in muscle differentiation. Together with MYF5 and MYOG, co-occupies muscle-specific gene promoter core region during myogenesis. Induces fibroblasts to differentiate into myoblasts. Interacts with and is inhibited by the twist protein. This interaction probably involves the basic domains of both proteins .
Cellular Localization	Nucleus.
Post-translational Modifications	Phosphorylated by CDK9. This phosphorylation promotes its function in muscle differentiation. Acetylated by a complex containing EP300 and PCAF. The acetylation is essential to activate target genes. Conversely, its deacetylation by SIRT1 inhibits its function . Ubiquitinated on the N-terminus; which is required for proteasomal degradation. Methylation at Lys-104 by EHMT2/G9a inhibits myogenic activity.