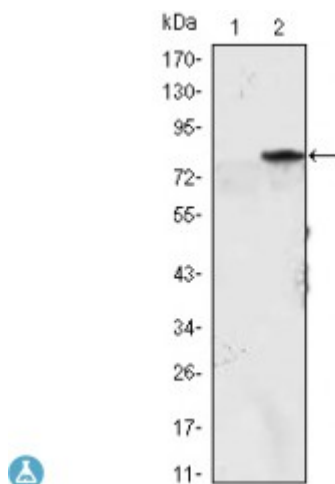


Anti-MyoD antibody



Description	Mouse monoclonal to MyoD.
Model	STJ98263
Host	Mouse
Reactivity	Human
Applications	ELISA, WB
Immunogen	Purified recombinant fragment of human MyoD expressed in E. Coli.
Gene ID	4654
Gene Symbol	MYOD1
Dilution range	WB 1:500-1:2000ELISA 1:10000
Specificity	MyoD Monoclonal Antibody detects endogenous levels of MyoD protein.
Purification	Affinity purification
Clone ID	1C8
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
Clonality	Monoclonal
Conjugation	Unconjugated
Isotype	IgG1
Formulation	Ascitic fluid containing 0.03% sodium azide.

Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:7611 OMIM: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.