10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MyoD1/Myf3 Rabbit pAb

MyoD1/Myf3 Rabbit pAb
Catalog # AP52107

Product Information

Application	WB
Primary Accession	P10085
Reactivity	Rat, Mouse
Predicted	Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34233
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse MyoD1
Epitope Specificity	51-150/318
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

Additional Information

Gene ID	17927
Other Names	Myoblast determination protein 1, Myod1, Myod
Dilution	WB=1:1000-5000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Myod1

Synonyms	Myod
Function	Acts as a transcriptional activator that promotes transcription of muscle-specific target genes and plays a role in muscle differentiation (PubMed:16901893). 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 (PubMed:21798092, PubMed:3175662).
Cellular Location	Nucleus.

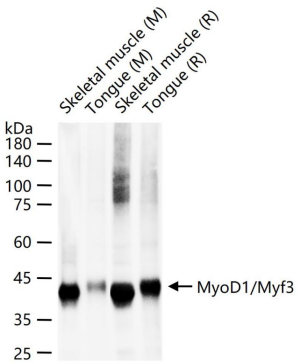
Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

References

Davis R.L.,et al.Cell 51:987-1000(1987).
Zingg J.-M.,et al.Nucleic Acids Res. 19:6433-6439(1991).
Pinney D.F.,et al.Cell 53:781-793(1988).
Carninci P.,et al.Science 309:1559-1563(2005).
Tapscott S.J.,et al.Science 242:405-411(1988).

Images



25 ug total protein per lane of various lysates (see on figure) probed with MyoD1/Myf3 polyclonal antibody, unconjugated (AP52107) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.