

Myomesin-1 rabbit pAb

Cat#: orb770745 (Manual)

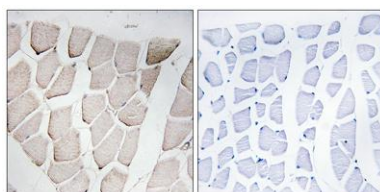
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Product Name	Myomesin-1 rabbit pAb
Host species	Rabbit
Applications	IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human MYOM1. AA range:824-873
Specificity	Myomesin-1 Polyclonal Antibody detects endogenous levels of Myomesin-1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Myomesin-1
Gene Name	MYOM1
Cellular localization	Cytoplasm, myofibril, sarcomere, M line .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

Concentration	1 mg/ml
Observed band	
Human Gene ID	8736
Human Swiss-Prot Number	P52179
Alternative Names	MYOM1; Myomesin-1; 190 kDa connectin-associated protein; 190 kDa titin-associated protein; Myomesin family member 1

Background

The giant protein titin, together with its associated proteins, interconnects the major structure of sarcomeres, the M bands and Z discs. The C-terminal end of the titin string extends into the M line, where it binds tightly to M-band constituents of apparent molecular masses of 190 kD (myomesin 1) and 165 kD (myomesin 2). This protein, myomesin 1, like myomesin 2, titin, and other myofibrillar proteins contains structural modules with strong homology to either fibronectin type III (motif I) or immunoglobulin C2 (motif II) domains. Myomesin 1 and myomesin 2 each have a unique N-terminal region followed by 12 modules of motif I or motif II, in the arrangement II-II-I-I-I-I-I-II-II-II-II-II. The two proteins share 50% sequence identity in this repeat-containing region. The head structure formed by these 2 proteins on one end of the titin string extends into the center of the M band. The integrating structure



Immunohistochemistry analysis of paraffin-embedded human skeletal muscle, using MYOM1 Antibody. The picture on the right is blocked with the synthesized peptide.