



# Myomesin-1 rabbit pAb

Cat No.:ES7870

For research use only

## Overview

<b>Product Name</b>	Myomesin-1 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Rat;Mouse;
<b>Recommended dilutions</b>	Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human MYOM1. AA range:824-873
<b>Specificity</b>	Myomesin-1 Polyclonal Antibody detects endogenous levels of Myomesin-1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Myomesin-1
<b>Gene Name</b>	MYOM1
<b>Cellular localization</b>	Cytoplasm, myofibril, sarcomere, M line .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	
<b>Human Gene ID</b>	8736
<b>Human Swiss-Prot Number</b>	P52179
<b>Alternative Names</b>	MYOM1; Myomesin-1; 190 kDa connectin-associated protein; 190 kDa titin-associated protein; Myomesin family member 1
<b>Background</b>	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. 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.

