

## Myomesin-1 Polyclonal Antibody

<b>Catalog No :</b>	YT2946
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	Myomesin-1
<b>Gene Name :</b>	MYOM1
<b>Protein Name :</b>	Myomesin-1
<b>Human Gene Id :</b>	8736
<b>Human Swiss Prot No :</b>	P52179
<b>Mouse Swiss Prot No :</b>	Q62234
<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>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	162kD

## 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. 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

## Function :

function:Major component of the vertebrate myofibrillar M band. Binds myosin, titin, and light meromyosin. This binding is dose dependent.,similarity:Contains 5 fibronectin type-III domains.,similarity:Contains 5 Ig-like C2-type (immunoglobulin-like) domains.,subunit:Interacts with TTN/titin (By similarity). Interacts with PNKD.,

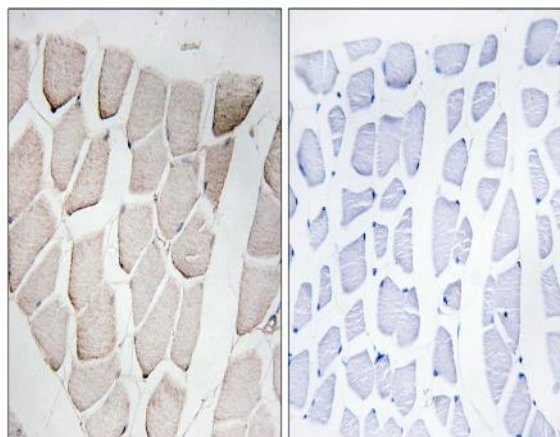
## Subcellular Location :

Cytoplasm, myofibril, sarcomere, M line .

## Expression :

Heart muscle,Skeletal muscle,

## Products Images



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