

Recombinant Rat Myh11 Protein, His-tagged

Cat. No. Myh11-1807R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Myh11 Protein (Met1-Ser351) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Met1-Ser351
Description	Predicted to enable cytoskeletal motor activity. Predicted to be a structural constituent of muscle. Predicted to be involved in cardiac muscle cell development and elastic fiber assembly. Predicted to act upstream of or within smooth muscle contraction. Predicted to be located in brush border; smooth muscle contractile fiber; and stress fiber. Predicted to be part of muscle myosin complex. Human ortholog(s) of this gene implicated in patent ductus arteriosus and thoracic aortic aneurysm. Orthologous to human MYH11 (myosin heavy chain 11).
Form	Freeze-dried powder
Molecular Mass	Accurate Molecular Mass: 44 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Myh11 myosin, heavy chain 11, smooth muscle [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Myh11
Synonyms	MYH11; myosin, heavy chain 11, smooth muscle; myosin-11; SMMHC; myosin heavy chain 11; myosin heavy chain 21; smooth muscle myosin heavy chain; myosin heavy chain, smooth muscle isoform; myosin, heavy polypeptide 11, smooth muscle;
Gene ID	24582
mRNA Refseq	NM_001170600
Protein Refseq	NP_001164071
UniProt ID	Q63862

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