

Recombinant Rat Myo1b Protein, His-tagged

Cat. No. Myo1b-2470R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Myo1b Protein (Lys952-Pro1136) with a N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Lys952-Pro1136
Description	Enables several functions, including actin filament binding activity; anion binding activity; and calmodulin binding activity. Involved in actin filament bundle assembly and actin filament-based movement. Located in several cellular components, including apical part of cell; brush border; and filopodium. Orthologous to human MYO1B (myosin IB).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 24.7 kDa Accurate Molecular Mass: 27 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
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 PBS or others.

GENE INFORMATION

Gene Name	Myo1b myosin Ib [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Myo1b
Synonyms	Myo1b; myosin Ib; Myr1; unconventional myosin-Ib MMI-alpha MMIa myosin I alpha myosin heavy chain myr 1
Gene ID	117057
mRNA Refseq	NM_053986
Protein Refseq	NP_446438
UniProt ID	Q05096

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