

Recombinant Rat Unc5b Protein, hlgG/His-tagged

Cat. No. Unc5b-039R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat UNC5B/UNC5B, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Rat
Source	HEK293
Description	Receptor for netrin required for axon guidance. Mediates axon repulsion of neuronal growth cones in the developing nervous system upon ligand binding. Axon repulsion in growth cones may be caused by its association with DCC that may trigger signaling for repulsion. Functions as netrin receptor that negatively regulates vascular branching during angiogenesis. Mediates retraction of tip cell filopodia on endothelial growth cones in response to netrin. It also acts as a dependence receptor required for apoptosis induction when not associated with netrin ligand. Mediates apoptosis by activating DAPK1. In the absence of NTN1, activates DAPK1 by reducing its autoinhibitory phosphorylation at Ser-308 thereby increasing its catalytic activity.
Form	Liquid
Molecular Mass	66.0 kDa
AA Sequence	GIDSGGQALPDSFPSAPAEQLPHFLLEPEDAYIVKNKPVELHCRAFPATQIYFKCNGE WVSQKGHVTQESLDEATGLRIREVQIEVSRQQVEELFGLEDYWCQCVAWSSSGTT KSRRAYIRIAYLRKNFDQEPLAKEVPLDHEVLLQCRPPEGVPVAEVEWLKNEDVIDP AQDTNFLTIDHNLIRQARLSDTANYTCVAKNIVAKRRSTTATVIVYVNGGWSSWAE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

WSPCSNRCGRGWQKRTRTCTNPAPLNGGAFCEGQACQKTACTIONVCPVDGAWTE
 WSKWSACSTECAHWRSRECMAPPQNGGRDCSGTLLDSKNCTDGLCVLNQRTLN
 DPKSRPLEPSGD

Endotoxin < 1 EU/μg of protein (determined by LAL method)

Purity > 90% by SDS-PAGE

Applications SDS-PAGE

Storage Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -118 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/mL (determined by Absorbance at 280nm)

Storage Buffer Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name [Unc5b unc-5 netrin receptor B \[Rattus norvegicus \(Norway rat\) \]](#)

Official Symbol [Unc5b](#)

Synonyms Unc5b; unc-5 netrin receptor B; Unc5h2; netrin receptor UNC5B; protein unc-5 homolog 2; protein unc-5 homolog B; transmembrane receptor Unc5H2; unc-5 homolog 2; unc-5 homolog B

Gene ID [60630](#)

mRNA Refseq [NM_022207](#)

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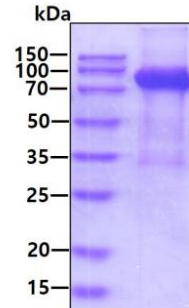
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Protein Refseq NP_071543

UniProt ID O08722

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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