

ROBO4 recombinant protein

Recombinant Mouse ROBO4 Protein (His tag)

CATALOG #
AAA173581

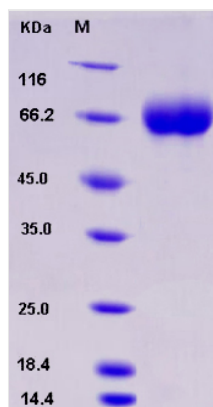
PRODUCT SYNONYMS

ROBO4; Recombinant Mouse ROBO4 Protein (His tag); 1200012D01Rik; AI593217; ECSM4; MRB; ROBO4 recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	> 97 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH 7.4, 5% Trehalose, 5% mannitol, 0.01% Tween-80
Sequence Length	1015
Source	Mouse
Expression Host	Human cells
Predicted Nterminal	Leu 38
Endotoxin	< 1.0 EU per ug of the protein as determined by the LAL method
Molecular Mass	The secreted recombinant mouse ROBO4 (aa 1-480) comprises 454 amino acids and has a calculated molecular mass of 49.6 kDa. As a result of glycosylation, the apparent molecular mass of the recombinant protein is approximately 65 kDa in SDS-PAGE under reducing conditions.
Reconstitution	It is recommended that sterile water (330ul) be added to the vial to prepare a stock solution of 0.3 mg/ml. Concentration is measured by UV-Vis.
Protein Construction	A DNA sequence encoding the mouse ROBO4 (NP_083059.2) N-terminal fragment (Met 1-Glu 480) was expressed, with a C-terminal polyhistidine tag.
Preparation and Storage	Store under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted and be used as soon as possible. Avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -70 degree C

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for ROBO4 recombinant protein	Roundabout homolog 4, also known as magic roundabout and ROBO4 is a member of the immunoglobulin superfamily and ROBO family. ROBO4 is specifically expressed in endothelial cells. It is expressed at sites of angiogenesis in different tumor type s. ROBO4 contains two fibronectin type -III domains and two Ig-like C2-type (immunoglobulin-like) domains. ROBO4 is the fourth identified member of the roundabout receptor family. It is the only Robo family member expressed in primary endothelial cells and that application of Slit inhibits their migration. ROBO4 is predominantly expressed in embryonic or tumor vascular endothelium and is considered important for vascular development and as a candidate tumor endothelial marker. ROBO4 is a bona fide member of the Robo family and may provide a repulsive cue to migrating endothelial cells during vascular development. ROBO4 is a receptor for Slit proteins, at least for SLIT2, and seems to be involved in angiogenesis and vascular patterning. ROBO4 may mediate the inhibition of primary endothelial cell migration by Slit proteins. Activating ROBO4 may have broad therapeutic application in diseases characterized by excessive angiogenesis and/or vascular leak.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	27229187
NCBI GeneID	74144
NCBI Accession #	NP_083059.2
NCBI GenBank Nucleotide #	NM_028783.3
UniProt Accession #	Q8C310; Q9DBW1
NCBI Official Full Name	roundabout homolog 4 isoform 2
NCBI Official Synonym Full Names	roundabout guidance receptor 4
NCBI Official Symbol	Robo4
NCBI Official Synonym Symbols	AI593217; 1200012D01Rik
NCBI Protein Information	roundabout homolog 4
UniProt Protein Name	Roundabout homolog 4
UniProt Gene Name	Robo4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.