

ROBO4 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P71262
Synonyms:	Roundabout homolog 4; Magic roundabout; ROBO4; UNQ421/PRO3674
Species:	Human
Source:	HEK293
Accession:	Q8WZ75 (Q28-R467)
Gene ID:	54538
Molecular Weight:	Approximately 87.0 kDa

PROPERTIES

AA Sequence	<p> Q D S P P Q I L V H P Q D Q L F Q G P G P A R M S C Q A S G Q P P P T I R W L L N G Q P L S M V P P D P H H L L P D G T L L L L Q P P A R G H A H D G Q A L S T D L G V Y T C E A S N R L G T A V S R G A R L S V A V L R E D F Q I Q P R D M V A V V G E Q F T L E C G P P W G H P E P T V S W W K D G K P L A L Q P G R H T V S G G S L L M A R A E K S D E G T Y M C V A T N S A G H R E S R A A R V S I Q E P Q D Y T E P V E L L A V R I Q L E N V T L L N P D P A E G P K P R P A V W L S W K V S G P A A P A Q S Y T A L F R T Q T A P G G Q G A P W A E E L L A G W Q S A E L G G L H W G Q D Y E F K V R P S S G R A R G P D S N V L L L R L P E K V P S A P P Q E V T L K P G N G T V F V S W V P P P A E N H N G I I R G Y Q V W S L G N T S L P P A N W T V V G E Q T Q L E I A T H M P G S Y C V Q V A A V T G A G A G E P S R P V C L L L E Q A M E R A T Q E P S E H G P W T L E Q L R A T L K R </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The ROBO4 Protein functions as a receptor for Slit proteins, particularly SLIT2, and appears to play a crucial role in
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angiogenesis and vascular patterning. It is implicated in mediating the inhibition of primary endothelial cell migration by Slit proteins, contributing to the regulation of cellular responses during angiogenic processes. Furthermore, ROBO4 is involved in maintaining the organization and function of the endothelial barrier, as evidenced by its role in endothelial barrier organization and function. The protein interacts with SLIT2 and ENAH, underscoring its specific engagement with key ligands and associated proteins in the regulation of vascular development and endothelial cell behavior.

Caution: Product has not been fully validated for medical applications. For research use only.

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