

Human ROBO4 Protein

Cat. No. ROB-HM104

Description

Source	Recombinant Human ROBO4 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala27-Glu469.
Accession	Q8WZ75-1
Molecular Weight	The protein has a predicted MW of 47.8 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

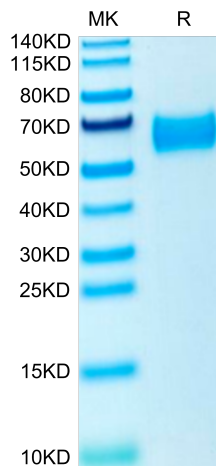
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Roundabout4 (Robo4) is a transmembrane receptor that belongs to the Roundabout (Robo) family of axon guidance molecules. Robo4 is an endothelial-specific receptor that participates in endothelial cell migration, proliferation, and angiogenesis and the maintenance of vasculature homeostasis. Robo4 is a promising and potentially valuable therapeutic target for treating pathological angiogenesis and developmental defects in angiogenesis.

Assay Data

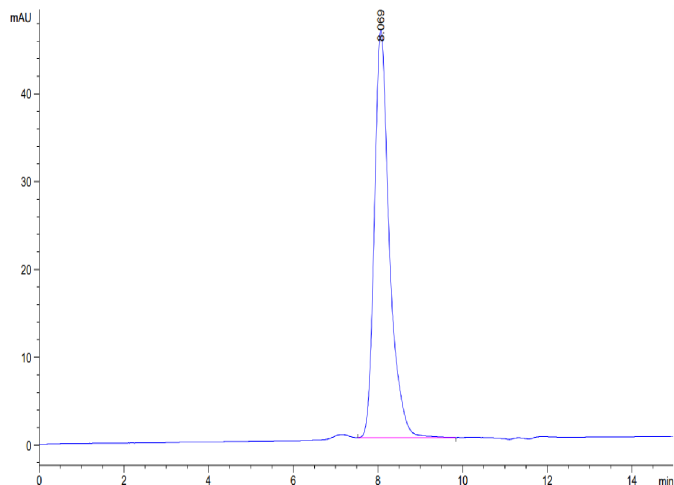
Tris-Bis PAGE



Human ROBO4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

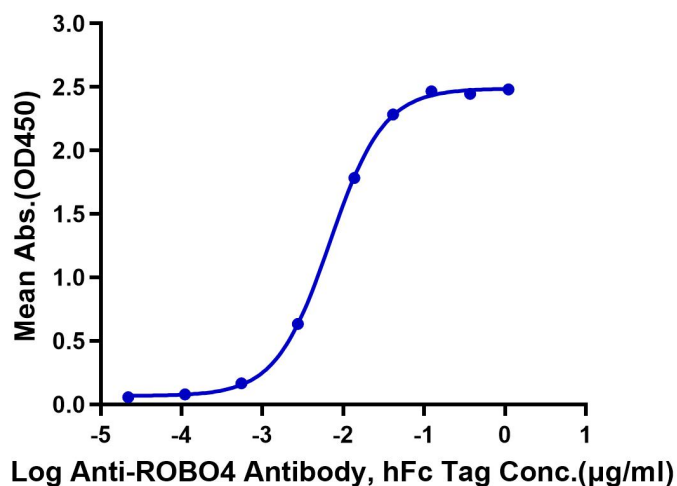


The purity of Human ROBO4 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human ROBO4, His Tag ELISA

0.05µg Human ROBO4, His Tag Per Well



Immobilized Human ROBO4, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-ROBO4 Antibody, hFc Tag with the EC50 of 6.8ng/ml determined by ELISA.