For Research Use Only

Recombinant Human ROBO1 protein (rFc Tag)

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Catalog Number: Eg6518

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human ROBO1 protein Gln26-Pro897 (Accession# Q9Y6N7-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
6091

Accession:
Q9Y6N7-1

Predicted Molecular Mass:
121.2 kDa

SDS-PAGE:
115-150 kDa , reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

ROBO1 (Roundabout Guidance Receptor 1) is a type I single-pass transmembrane glycoprotein of the immunoglobulin superfamily, serving as the receptor for SLIT1/2 ligands. It mediates axon guidance, neuronal migration, and angiogenesis during development. Dysregulated ROBO1 drives tumor invasion/metastasis in multiple cancers and pathological ocular neovascularization. It is a preclinical therapeutic target; neutralizing antibodies and small molecules blocking SLIT-ROBO1 signaling are under investigation for cancer and eye diseases.

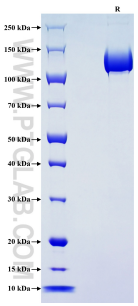
References

1. Hannula-Jouppi, Katariina et al. PLoS genetics vol. 1,4 (2005): e50.
2. Bhosle, Vikrant K et al. Nature communications vol. 11,1 4112. 17 Aug. 2020.

Synonyms

Deleted in U twenty twenty, DUTT1, H Robo 1, H-Robo-1, Roundabout homolog 1

Selected Validation Data



Purity of Recombinant Human ROBO1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.