

**Synonym**

ROBO1,DUTT1

**Source**

Human ROBO1, His Tag(RB1-H52H3) is expressed from human 293 cells (HEK293). It contains AA Gln 26 - Pro 897 (Accession # [Q9Y6N7-1](#) ).

Predicted N-terminus: Gln 26

**Molecular Characterization**

ROBO1(Gln 26 - Pro 897) Q9Y6N7-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 97.5 kDa. The protein migrates as 100-120 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

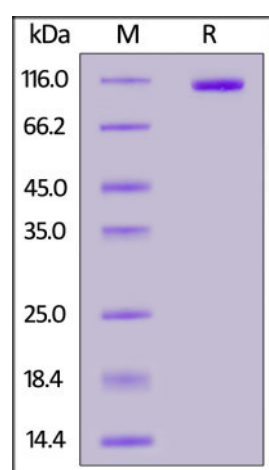
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

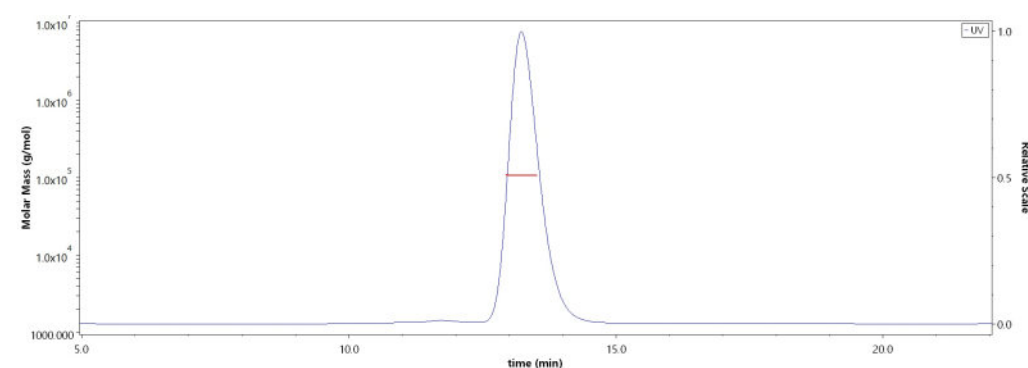
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

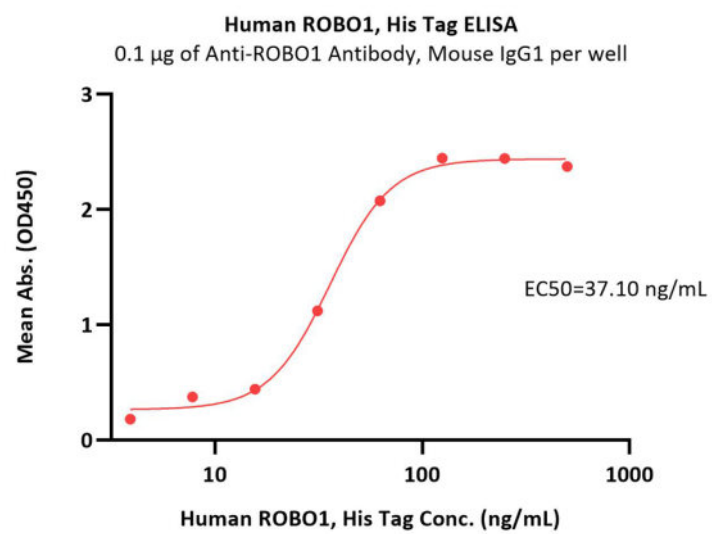
**SDS-PAGE**

Human ROBO1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA****SEC-MALS**

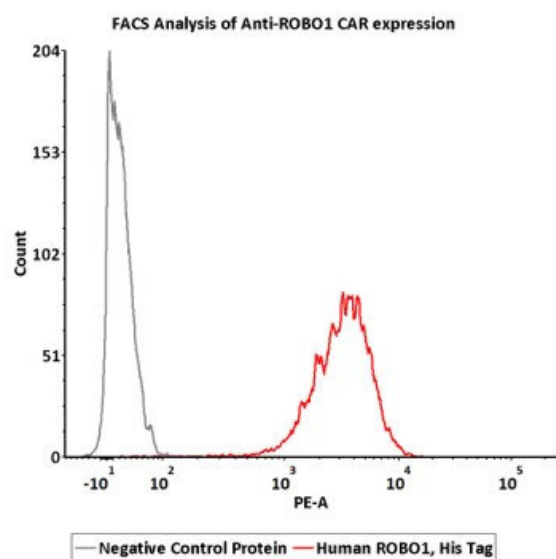
The purity of Human ROBO1, His Tag (Cat. No. RB1-H52H3) is more than 95% and the molecular weight of this protein is around 98-122 kDa verified by SEC-MALS.

[Report](#)



Immobilized Anti-ROBO1 Antibody, Mouse IgG1 at 1 µg/mL (100 µL/well) can bind Human ROBO1, His Tag (Cat. No. RB1-H52H3) with a linear range of 8-125 ng/mL (QC tested).

### Bioactivity-FACS



2e5 of Anti-ROBO1 CAR-293 cells were stained with 100 µL of 10 µg/mL of Human ROBO1, His Tag (Cat. No. RB1-H52H3) and negative control protein respectively, washed and then followed by PE-anti His antibody and analyzed with FACS (Routinely tested).

### Background

ROBO1 is a member of the ROBO immunoglobulin superfamily of proteins, and it plays a crucial role in cell motility and migration during embryogenesis and organogenesis. In addition, evidence showed that ROBO1 might drive migration and invasion in malignant cells, such as glioma and breast cancer, which might play a role in cancer aggressiveness. In contrast, some studies suggested that ROBO1 pathways play a key role in tumors by acting as a tumor suppressor, especially in cell invasion.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.