



Synonym

ROR1,NTRKR1

Source

Human / Cynomolgus / Rhesus macaque ROR1 (39-151, Ig-like domain), His Tag (RO1-H5221) is expressed from human 293 cells (HEK293). It contains AA Glu 39 - Gly 151 (Accession # [Q01973-1](#)). In the region Gln 30 - Glu 403, the AA sequence of Human, Cynomolgus and Rhesus macaque ROR1 are homologous.

Predicted N-terminus: Glu 39

Molecular Characterization

ROR1(Glu 39 - Gly 151)
Q01973-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 13.7 kDa. The protein migrates as 25-32 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

>90% 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

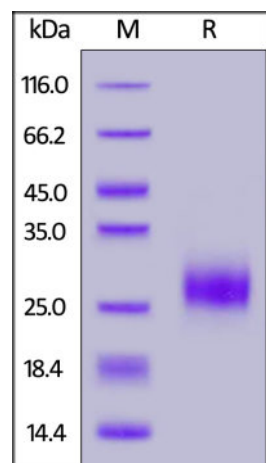
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

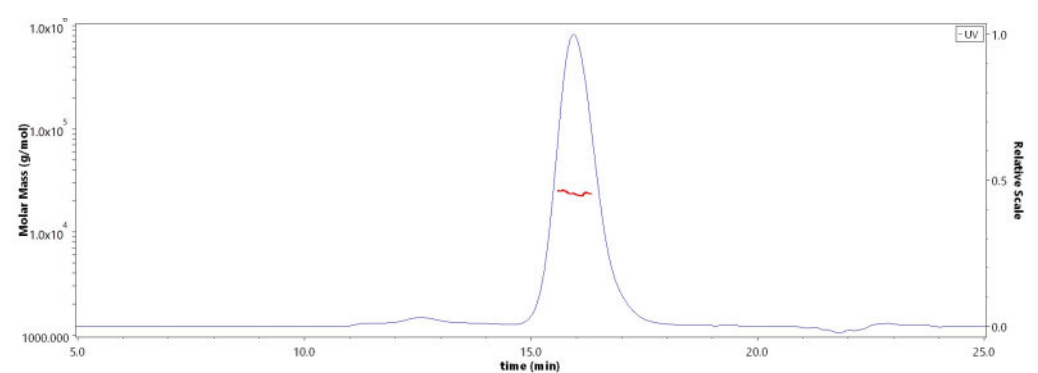
SDS-PAGE



Human / Cynomolgus / Rhesus macaque ROR1 (39-151, Ig-like domain), 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 / Cynomolgus / Rhesus macaque ROR1 (39-151, Ig-like domain), His Tag (Cat. No. RO1-H5221) is more than 90% and the molecular weight of this protein is around 18-28 kDa verified by SEC-MALS.

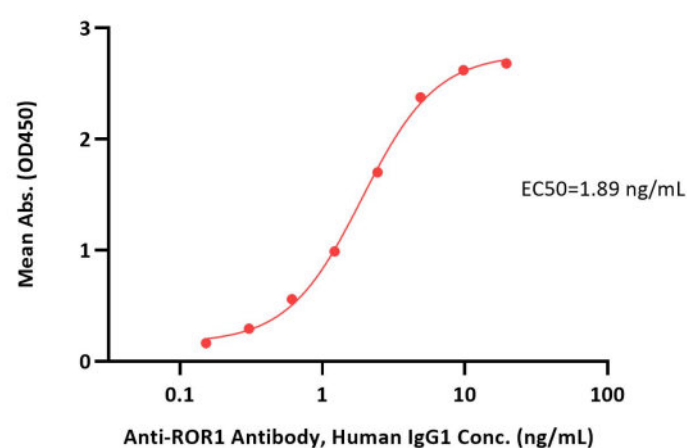
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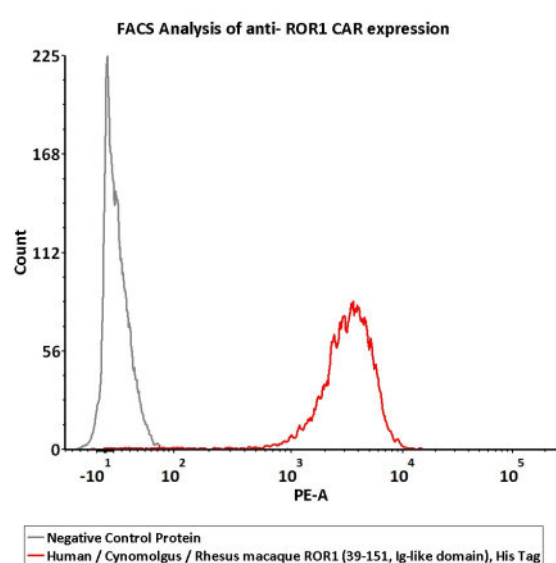


Human / Cynomolgus / Rhesus macaque ROR1 (39-151, Ig-like domain), His Tag ELISA
0.2 µg of Human / Cynomolgus / Rhesus macaque ROR1 (39-151, Ig-like domain), His Tag per well



Immobilized Human / Cynomolgus / Rhesus macaque ROR1 (39-151, Ig-like domain), His Tag (Cat. No. RO1-H5221) at 2 µg/mL (100 µL/well) can bind Anti-ROR1 Antibody, Human IgG1 with a linear range of 0.3-2.4 ng/mL (QC tested).

Bioactivity-FACS



2e5 of anti-ROR1 CAR-293 cells were stained with 100 µL of 10 µg/mL of Human / Cynomolgus / Rhesus macaque ROR1 (39-151, Ig-like domain), His Tag (Cat. No. RO1-H5221) and negative control protein respectively, washed and then followed by PE-anti-His Tag and analyzed with FACS (Routinely tested).

Background

Tyrosine-protein kinase transmembrane receptor ROR1 is also known as Neurotrophic tyrosine kinase, receptor-related 1 (NTRKR1), which belongs to the protein kinase superfamily or tyr protein kinase family or ROR subfamily. ROR1 contains 1 FZ (frizzled) domain, 1 Ig-like C2-type (immunoglobulin-like) domain, 1 kringle domain, 1 protein kinase domain. ROR1 is expressed at high levels during early embryonic development. The expression levels drop strongly around day 16 and there are only very low levels in adult tissues. Isoform Short is strongly expressed in fetal and adult CNS and in a variety of human cancers, including those originating from CNS or PNS neuroectoderm. ROR1 could interact with casein kinase 1 epsilon (CK1ε) to activate phosphoinositide 3-kinase-mediated AKT phosphorylation and cAMP-response-element-binding protein (CREB), which was associated with enhanced tumor-cell growth.

Clinical and Translational Updates

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