

Synonym

ROR1,NTRKR1

Source

Alexa Fluor 488-Labeled Human ROR1 Protein, His Tag (RO1-HA2H7) is produced via conjugation of AF488 to Human ROR1 Protein, His Tag with a new generation site-specific technology under Star Staining labeling platform. Human ROR1 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Gln 30 - Glu 403 (Accession # [Q01973-1](#)). Predicted N-terminus: Gln 30

Molecular Characterization

ROR1(Gln 30 - Glu 403)
Q01973-1

Poly-his

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

Conjugate

AF488
Excitation Wavelength: 488 nm
Emission Wavelength: 517 nm

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 protect from light and avoid repeated freeze-thaw cycles.
This product is stable after storage at:

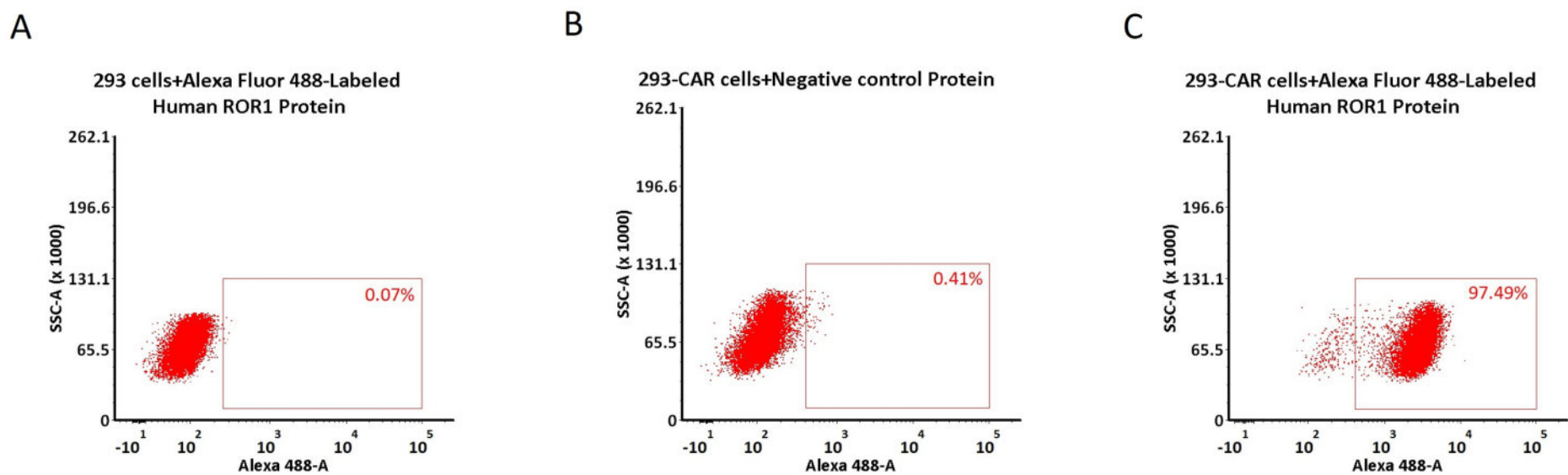
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

Star Staining fluorescent-labeled products are developed by a new-generation site-specific labeling technology with Star Standard quality at ACROBiosystems

- ★ Using new-generation site-specific labeling technology to maintain natural bioactivity.
- ★ No non-specific binding to non-transduced PBMCs.
- ★ High specificity and sensitivity verified by flow cytometry.
- ★ High homogeneity and high batch-to-batch consistency.

Evaluation of CAR expression

FACS Analysis of Anti-ROR1 CAR Expression



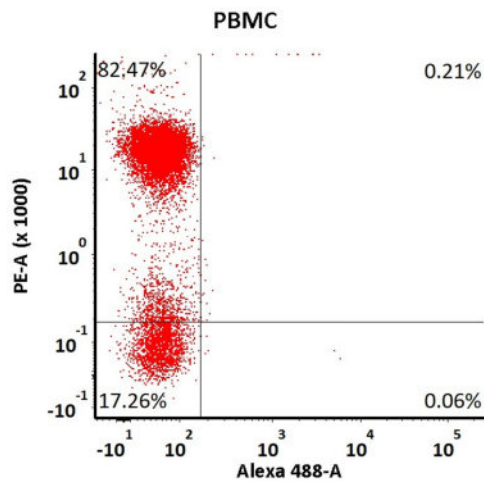
5e5 of anti-ROR1 CAR-293 cells were stained with 100 μL of 3 μg/mL of Alexa Fluor 488-Labeled Human ROR1 Protein, His Tag (Cat. No.RO1-HA2H7) and negative control protein respectively (Fig. C and B), and non-transfected 293 cells were used as a control (Fig. A). Alexa Fluor 488 signal was used to evaluate the

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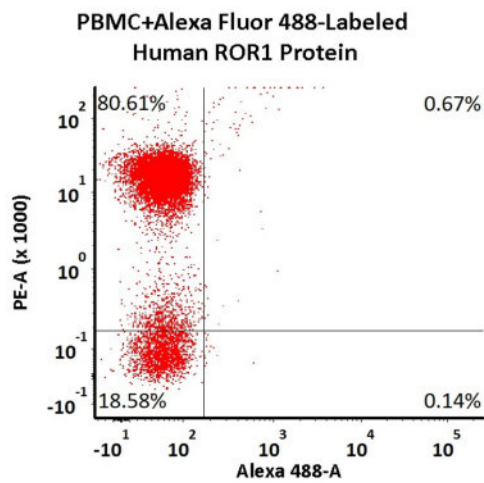


binding activity (QC tested).
FACS Analysis of Non-specific binding to PBMCs

A



B



5e5 of PBMCs were stained with Alexa Fluor 488-Labeled Human ROR1 Protein, His Tag (Cat. No.RO1-HA2H7) and anti-CD3 antibody, washed and then analyzed with FACS. PE signal was used to evaluate the expression of CD3+ T cells in PBMCs, and Alexa Fluor 488 signal was used to evaluate the non-specific binding activity to PBMCs (QC 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.

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