

PE-Labeled Human FOLR1 Protein, His Tag (Site-specific conjugation) (Folic Acid Free)

Catalog # FO1-HP2H9



Synonym

FOLR-1, FBP, FOLR, FR $\alpha$

Source

PE-Labeled Human FOLR1, His Tag (FO1-HP2H9) is produced via site-specific conjugation of PE to Human FOLR1, His Tag under optimal conditions with a proprietary technology. Human FOLR1, His Tag is expressed from human 293 cells (HEK293). It contains AA Arg 25 - Met 233 (Accession # [P15328-1](#)).  
Predicted N-terminus: Arg 25

Molecular Characterization

FOLR1(Arg 25 - Met 233) P15328-1	Poly-his
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[Other Tags and Version](#) [Biotin & Other Labeled Version](#)

This protein carries a polyhistidine tag at the C-terminus.  
The protein has a calculated MW of 28.3 kDa.

Conjugate

PE  
Excitation Wavelength: 488 nm / 561 nm  
Emission Wavelength: 575 nm

Application

Evaluation of anti-FOLR1 CAR expression by flow cytometry. Please note that this product is NOT compatible to streptavidin detection system.

Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, 0.5% BSA, 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

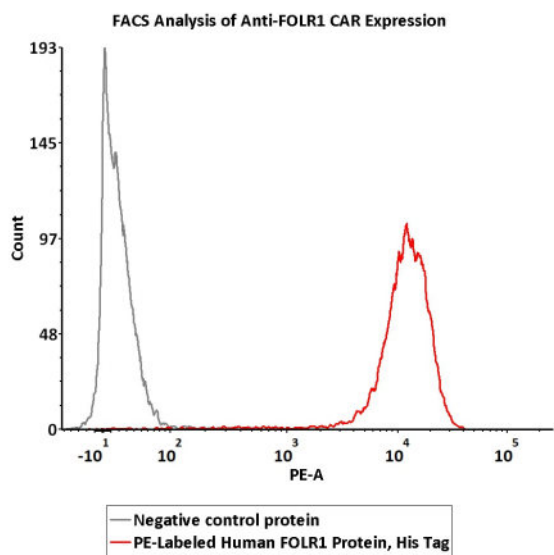
For long term storage, the product should be stored at lyophilized state at -20°C or lower.  
**Please protect from light and avoid repeated freeze-thaw cycles.**  
This product is stable after storage at:

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

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

Bioactivity-FACS



5e5 of anti-FOLR1 CAR-293 cells were stained with 100 µL of 1:50 dilution (2 µL stock solution in 100 µL FACS buffer) of PE-Labeled Human FOLR1, His Tag (Cat. No. FO1-HP2H9) and negative control protein respectively. PE signal was used to evaluate the binding activity (QC tested).

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## Background

Folate Receptor 1 (FOLR1) is also known as Folate receptor alpha, Folate Binding Protein (FBP), FOLR, and is a member of the folate receptor (FOLR) family. Members of this gene family have a high affinity for folic acid and for several reduced folic acid derivatives, and mediate delivery of 5-methyltetrahydrofolate to the interior of cells. Mature FOLR1 is an N-glycosylated protein that is anchored to the cell surface by a GPI linkage. FOLR1 is predominantly expressed on epithelial cells and is dramatically upregulated on many carcinomas. FOLR1 is internalized to the endosomal system where it dissociates from its ligand before recycling to the cell surface. A soluble form of FOLR1 can be proteolytically shed from the cell surface into the serum and breast milk. Defects in FOLR1 are the cause of neurodegeneration due to cerebral folate transport deficiency (NCFTD). NCFTD is an autosomal recessive disorder resulting from brain-specific folate deficiency early in life.

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