



## Synonym

EGFRvIII

## Source

APC-Labeled Human EGFRvIII, His Tag (EGI-HA2H8) is produced via conjugation of APC to Human EGFRvIII, His Tag with a new generation site-specific technology under optimal conditions with a proprietary technology. Human EGFRvIII, His Tag is expressed from human 293 cells (HEK293). It contains AA Leu 25 - Ser 378 (Accession # [NP\\_001333870.1](#)). Predicted N-terminus: Leu 25

## Molecular Characterization

EGFRvIII(Leu 25- Ser 378)  
NP\_001333870.1 Poly-his

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

The protein has a calculated MW of 42.4 kDa.

## Conjugate

APC

Excitation Wavelength: 640 nm

Emission Wavelength: 661 nm

## Application

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

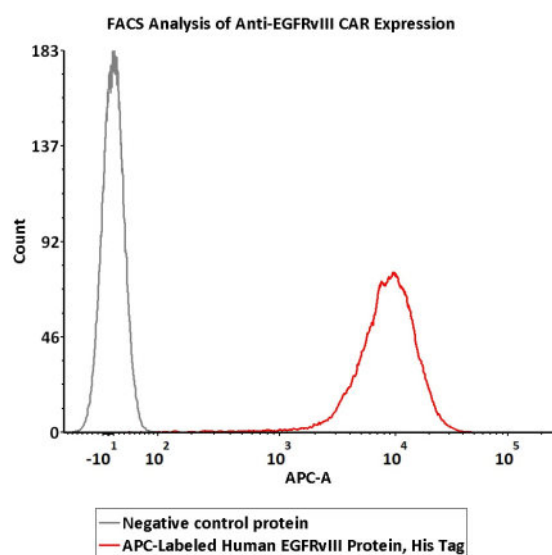
For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please protect from light and avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

## Bioactivity-FACS



$5 \times 10^5$  of anti-EGFRvIII CAR-293 cells were stained with 100  $\mu$ L of 1:50 dilution (2  $\mu$ L stock solution in 100  $\mu$ L FACS buffer) of APC-Labeled Human EGFRvIII Protein, His Tag (Cat. No. EGI-HA2H8) and negative control protein respectively. APC signal was used to evaluate the binding activity (QC tested).

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## Background

The epidermal growth factor receptor (EGFR; ErbB-1; HER1 in humans) is the cell-surface receptor for members of the epidermal growth factor family (EGF-family) of extracellular protein ligands. The epidermal growth factor receptor is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR (ErbB-1), HER2/c-neu (ErbB-2), Her 3 (ErbB-3) and Her 4 (ErbB-4). Mutations affecting EGFR expression or activity could result in cancer.

The type III EGF deletion mutant receptor (EGFRvIII) is the most common mutation and was first identified in primary human glioblastoma tumors. This tumor-specific antigen is ligand-independent, contains a constitutively active tyrosine kinase domain, and has been shown to be present in a number of human malignancies. EGFRvIII has been selected as a target for CAR-modified T-cell studies in recent years.

## Clinical and Translational Updates

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

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