

Recombinant Human EGFR protein, His-tagged, Site-Specific AF 488-Labeled

Cat. No. EGFR-7532H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGFR Protein (NP_005219.2, 1-645aa), was expressed in HEK293 with C-terminal His tag and site-specific AF 488 conjugate (Excitation Max. = 495 nm, Emission Max. = 519 nm).
Species	Human
Source	HEK293
ProteinLength	1-645 aa
Tag	C-His
Form	This product is Lyophilized from sterile PBS, pH 7.4.
Bio-activity	<ol style="list-style-type: none"> 1. Immobilized Recombinant Human EGF / Epidermal Growth Factor Protein (Fc Tag) at 2 µg/ml (100 µl/well) can bind Recombinant Human EGFR Protein, the EC50 is 100-300 ng/mL. 2. Flow cytometric analysis of anti-EGFR CAR expression. 293 cells were lentivirally transduced with anti-EGFR CAR. Flow cytometric analysis was performed with a negative control protein and AF 488-conjugated human EGFR protein (Site-Specific Conjugation, ECD, His Tag, respectively). Non-transduced 293 cells were used as a control (left). 3. Binding activity of AF 488-conjugated EGFR protein to PBMC cells. PBMC cells were stained with anti-CD3 antibody and AF 488-conjugated human EGFR protein

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and detected by flow cytometry. PBMC cells stained with anti-CD3 antibody were used as a control (left).

Molecular Mass

The recombinant Human EGFR consists of AA Met1-Ser645 with a polyhistidine tag at the C-terminus. It has a predicted molecular mass of 72 kDa.

Endotoxin

< 1.0 EU per µg protein as determined by the LAL method.

Purity

≥ 90 % as determined by SDS-PAGE.

Storage

Twelve months from date of receipt at -20°C to -70°C in lyophilized form and 3 months at -70°C under sterile conditions after reconstitution. Protect from prolonged exposure to light and avoid repeated freeze-thaw cycles.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name

EGFR epidermal growth factor receptor [[Homo sapiens](#)]

Official Symbol

EGFR

Synonyms

EGFR; epidermal growth factor receptor; epidermal growth factor receptor (avian erythroblastic leukemia viral (v erb b) oncogene homolog) , ERBB; ERBB1; erythroblastic leukemia viral (v erb b) oncogene homolog (avian); proto-oncogene c-ErbB-1; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; receptor tyrosine-protein kinase erbB-1; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; ERBB; HER1; mENA; PIG61;

Gene ID

1956

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mRNA Refseq	NM_005228
Protein Refseq	NP_005219
MIM	131550
UniProt ID	P00533

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