

Active Recombinant Rabbit EGFR Protein, His-tagged

Cat. No. EGFR-11080R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit EGF R, His Tag is expressed from human 293 cells (HEK293). It contains AA Leu 25 - Ser 645 (Accession # G1SZE4-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Leu 25
Species	Rabbit
Source	HEK293
ProteinLength	25-645 aa
Description	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.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Rabbit EGF R, His Tag at 5 µg/mL (100 µL/well) can bind Cetuximab with a linear range of 0.1-2 ng/mL.
Molecular Mass	The protein has a calculated MW of 70.2 kDa. The protein migrates as 75-85 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please 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 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	EGFR epidermal growth factor receptor [<i>Oryctolagus cuniculus</i> (rabbit)]
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	100008806
mRNA Refseq	XM_070058425
Protein Refseq	XP_069914526

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UniProt ID

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