

Recombinant Monkey EGFR Protein, hFc-tagged, Alexa Fluor 555 conjugated

Cat. No. EGFR-1226RAF555 **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Rhesus macaque EGFR Protein (25-645aa), was expressed in human 293 cells (HEK293) with C-terminal human IgG1 Fc tag and Alexa Fluor 555 conjugate.

Species Monkey

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

Molecular Mass The protein has a calculated MW of 95.3 kDa. The protein migrates as 130-140 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

N-terminal Sequence Analysis Leu 25

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Endotoxin	< 1.0 EU/ µg by the LAL method.
Purity	> 95 % as determined by SDS-PAGE
Characteristic	<p>Disulfide-linked homodimer</p> <p>Labeled with Alexa Fluor 555 via amines</p> <p>With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters.</p>
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p>
Storage Buffer	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
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.
Conjugation	Alexa Fluor 555

GENE INFORMATION

Gene Name	EGFR
Official Symbol	EGFR

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Gene ID	613027
mRNA Refseq	XM_015133436
Protein Refseq	XP_014988922
UniProt ID	P55245

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