Datasheet for ABIN7199180

EGFR Protein (Fc-Avi Tag,Biotin)

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Overview

Quantity:	200 µg
Target:	EGFR
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EGFR protein is labelled with Fc-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated Human EGF R Protein, Fc,Avitag™ (MALS verified)
Sequence:	Leu 25 - Ser 645
Characteristics:	Biotinylated Human EGF R, Fc,Avitag is expressed from human 293 cells (HEK293). It contains AA Leu 25 - Ser 645 (Accession # P00533-1).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Grade:	MALS verified

Target Details

Target:	EGFR
Alternative Name:	EGF R (EGFR Products)
Background:	Synonyms: EGFR,ERBB,ERBB1,HER1,PIG61,mENA,

Target Details

	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.
Molecular Weight:	96.7 kDa
NCBI Accession:	NP_005219
Pathways:	NF-kappaB Signaling, RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Stem Cell Maintenance, Hepatitis C, Positive Regulation of Response to DNA Damage Stimulus, Interaction of EGFR with phospholipase C-gamma, Thromboxane A2 Receptor Signaling, EGFR Downregulation, S100 Proteins

Application Details

Application Notes:	This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 96.7 kDa. The protein migrates as kDa under reducing (R) condition due to glycosylation.
Comment:	Ready-to-use Avitag™ biotinylated protein: The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA. This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4

Handling

Storage:	-20 °C
Storage Comment:	-20°C