Datasheet for ABIN7319230

EGFR Protein (His tag)

Go to Product page

Overview

Quantity:	50 µg
Target:	EGFR
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This EGFR protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human EGFR/ErbB1 Protein (His Tag)(Active)
Sequence:	Leu25-Val30Gly&Asn298-Ser645
Characteristics:	Recombinant Human Epidermal Growth Factor Receptor/Receptor Tyrosine Protein Kinase ErbB1 is produced by our Mammalian expression system and the target gene encoding Leu25-Val30Gly&Asn298-Ser645 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Human EGF(Cat: PKSH033687) at 10µg/ml(100 µl/well) can bind Human HER1-His.

Target Details

Target:	EGFR

Target Details

Alternative Name:	EGFR/ErbB1 (EGFR Products)
Background:	Background: The EGFR subfamily of receptor tyrosine kinases is composed of EGFR, ErbB2, ErbB3 and ErbB4. The EGFR shares 43 % - 44 % aa sequence identity with the ECD of human EGFR subfamily. All these family members are type I transmembrane glycoproteins with an extracellular ligand binding domain. The extracellular ligand binding domain is containing two cysteine-rich domains separated by a spacer region and a cytoplasmic domain containing a membrane-proximal tyrosine kinase domain. Ligand binding could induce EGFR homodimerization and heterodimerization with ErbB2, resulting in cell signaling, heterodimerization tyrosine phosphorylation and kinase activation. It can bind EGF, amphiregulin, TGF-alpha, betacellulin, epiregulin, HB-EGF, epigen, and so on. Its signaling regulates multiple biological functions including cell proliferation, differentiation, motility, and apoptosis. EGFR can also be recruited to form heterodimers with the ligand-activated ErbB3 or ErbB4. EGFR is overexpressed in different tumors. Several anti-cancer drugs use EGFR as target. Synonym: Epidermal growth factor receptor, EGFR, Proto-oncogene c-ErbB-1, Receptor tyrosine-protein kinase erbB-1, EGFR
Molecular Weight:	39.7 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

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

Handling

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.