

For Research Use Only

Phospho-EGFR (Thr693) Recombinant monoclonal antibody

Catalog Number:87291-1-RR



Basic Information

Catalog Number:

87291-1-RR

Size:

100ul , Concentration: 1000 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_005228

GeneID (NCBI):

1956

UNIPROT ID:

P00533

Full Name:

epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)

Observed MW:

150-180 kDa

Purification Method:

Protein A purification

CloneNo.:

252344B6

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : EGF treated A431 cells,

Background Information

Epidermal growth factor receptor (EGFR) is a member of the receptor tyrosine kinase (RTK) family and plays a critical role in a wide variety of cellular functions, including proliferation, differentiation and apoptosis. Phospho-EGFR (Thr693) is a phosphorylated form of the epidermal growth factor receptor (EGFR) at the threonine 693 residue. This phosphorylation event is significant as it is involved in the activation of EGFR signaling pathways. EGFR is known to be a transcriptional co-activator for several cancer-promoting genes, including cyclin D1, nitric oxide synthase (iNOS), and cyclooxygenase-2 (COX-2). (PMID: 34295309) Some scientists call EGFR Thr693 as EGFR Thr669, the site where the signaling peptide is removed.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

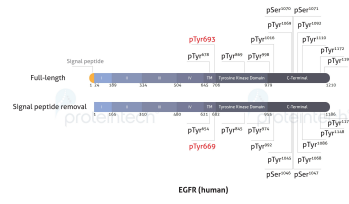
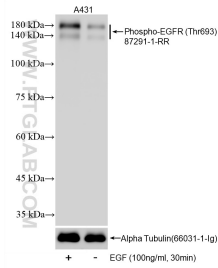
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Selected Validation Data



Non-treated A431 cells and EGF (HZ-1326) treated A431 cells were subjected to SDS PAGE followed by western blot with 87291-1-RR (Phospho-EGFR (Thr693) antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control.

In the full-length versus signal-peptide-removed forms, nomenclature differs but the modification site is conserved.