

For Research Use Only

Phospho-EGFR (Thr693) Recombinant monoclonal antibody, PBS Only

Catalog Number:87291-1-PBS



Basic Information

Catalog Number:

87291-1-PBS

Size:

100ug, Concentration: 1 mg/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

Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

human

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 -80°C.

Storage Buffer:

PBS only, pH7.3

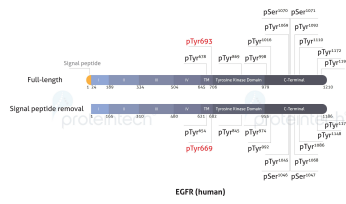
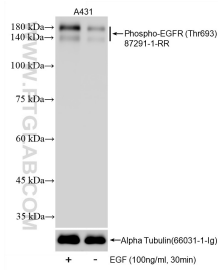
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Selected Validation Data



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

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. This data was developed using the same antibody clone with 87291-1-PBS in a different storage buffer formulation.