

For Research Use Only

# Phospho-EGFR (Tyr1172) Recombinant monoclonal antibody, PBS Only

Catalog Number:87164-1-PBS



## Basic Information

**Catalog Number:**

87164-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

BC094761

**GeneID (NCBI):**

1956

**UNIPROT ID:**

P00533

**Full Name:**

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

**Calculated MW:**

1210 aa, 134 kDa

**Observed MW:**

175 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

252172E10

## Applications

**Tested Applications:**

WB, IF/ICC, Indirect ELISA

**Species Specificity:**

human

## Background Information

ERBB1, also named as EGFR, is a receptor for EGF, but also for other members of the EGF family, as TGF-alpha, amphiregulin, betacellulin, heparin-binding EGF-like growth factor, GP30 and vaccinia virus growth factor. Phospho-EGFR (Tyr1172) is a phosphorylated form of the epidermal growth factor receptor (EGFR), which is a transmembrane glycoprotein receptor that belongs to the ErbB family of receptor tyrosine kinases (RTKs). This phosphorylation event is significant as it activates downstream signaling cascades that regulate various cellular processes, including cell growth, proliferation, and survival. Some scientists call EGFR Tyr1172 as EGFR Tyr1148, the site where the signaling peptide is removed.

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS only, pH7.3

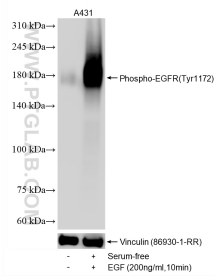
For technical support and original validation data for this product please contact:

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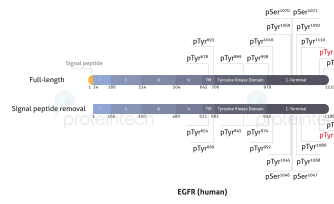
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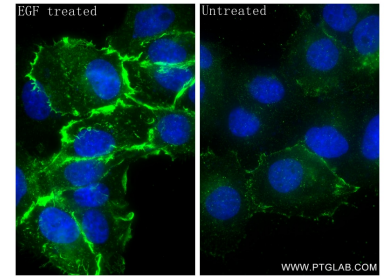
## Selected Validation Data



Non-treated A431 cells, Serum-free treated and EGF treated A431 cells were subjected to SDS PAGE followed by western blot with 87164-1-RR (Phospho-EGFR (Tyr1172) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Vinculin (86930-1-RR) antibody as a loading control. This data was developed using the same antibody clone with 87164-1-PBS in a different storage buffer formulation.



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



Immunofluorescent analysis of (4% PFA) fixed EGF treated A431 cells using Phospho-EGFR (Tyr1172) antibody (87164-1-RR, Clone: 252172E10) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 87164-1-PBS in a different storage buffer formulation.