

For Research Use Only

# Phospho-EGFR (Tyr1069) Recombinant monoclonal antibody

Catalog Number: 87711-2-RR



## Basic Information

Catalog Number:

87711-2-RR

Size:

100ul, Concentration: 1000 µg/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.:

253169E2

Recommended Dilutions:

WB: 1:5000-1:50000

FC (Intra): 0.13 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : EGF treated HeLa cells, EGF treated A431 cells

FC (Intra) : EGF treated A431 cells,

## Background Information

Epidermal Growth Factor Receptor (EGFR) is one of the receptor tyrosine kinases (RTKs), members of the ErbB/HER family which consists of ErbB1 (EGFR or HER1), ErbB2 (HER2 or Neu), ErbB3 (HER3), and ErbB4 (HER4). Aberrant activation of EGFR is among the most common oncogenic driving events in human cancer, which is mediated largely through different classes of genomic alterations within the EGFR gene. Phosphorylation of EGFR Tyr1069 acts as the degron of EGFR and is recognized by c-Cbl, enhancing the ubiquitination and degradation of EGFR. EGFR stability is tightly regulated upon EGF stimulation. (PMID: 35164092, PMID: 29464683, PMID: 37085908). Some scientists call EGFR Tyr1069 as EGFR Tyr1045, 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

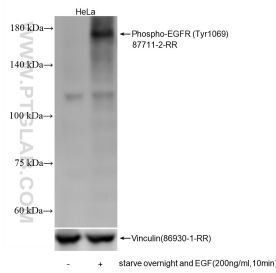
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

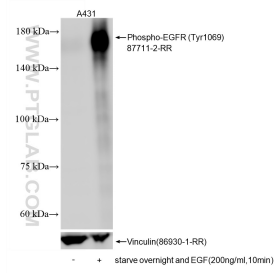
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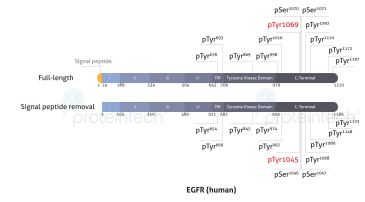
## Selected Validation Data



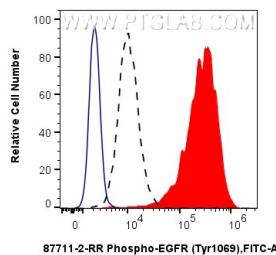
Non-treated HeLa cells and EGF (HZ-1326) treated HeLa cells were subjected to SDS PAGE followed by western blot with 87711-2-RR (Phospho-EGFR (Tyr1069) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Vinculin (86930-1-RR) antibody as a loading control.



Non-treated A431 cells and EGF (HZ-1326) treated A431 cells were subjected to SDS PAGE followed by western blot with 87711-2-RR (Phospho-EGFR (Tyr1069) antibody) at dilution of 1:10000 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.



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



1X10<sup>6</sup> A431 cells untreated (dashed lines) or treated with EGF which intracellularly stained with 0.13  $\mu$ g Phospho-EGFR (Tyr1069) Recombinant monoclonal antibody (87711-2-RR, Clone:253169E2) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.13  $\mu$ g Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).