For Research Use Only

Phospho-EGFR (Tyr1016) Recombinant monoclonal antibody

Catalog Number:82736-11-RR

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Basic Information

Catalog Number:
82736-11-RR

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:
170 kDa

Purification Method:
Protein A purification

CloneNo.:
250687B2

Recommended Dilutions:
WB: 1:2000-1:10000
IF/ICC: 1:500-1:2000
FC (Intra): 0.25 ug per 10^6 cells in a 100 µl suspension

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), ELISA

Species Specificity:
human

Positive Controls:

WB : EGF treated A431 cells,

IF/ICC : EGF treated A431 cells,

FC (Intra) : EGF treated A431 cells,

Background Information

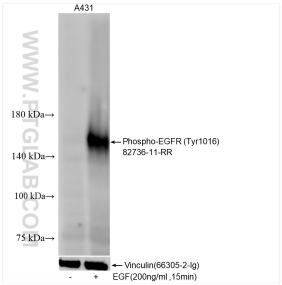
Epidermal Growth Factor Receptor (EGFR) is one of the receptor tyrosine kinases (RTKs), members of the ErbB/HER family which consists of ErbB1 (EGFR or HER1), ErbB2 (HER2 or Neu), ErbB3 (HER3), and ErbB4 (HER4). Phosphorylation at Tyr1016 is essential for the recruitment of downstream signaling molecules. For example, it can interact with adapter proteins like GRB2, which in turn activates the Ras-MAPK pathway, leading to cell proliferation and differentiation. (PMID: 26628682) Some scientists call EGFR Tyr1016 as EGFR Tyr992, the site where the signaling peptide is removed.

Storage

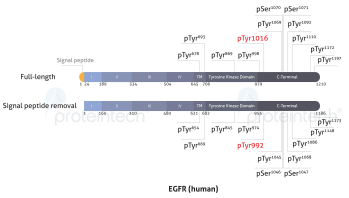
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

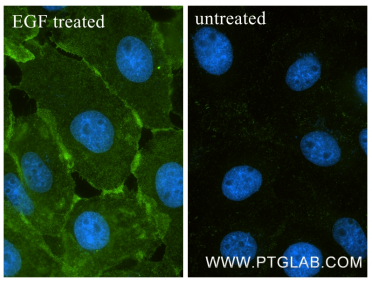
Selected Validation Data



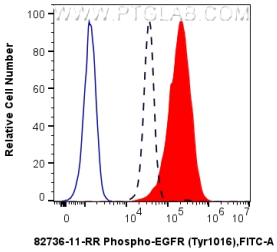
Non-treated A431 cells and EGF (HZ-1326) treated A431 cells were subjected to SDS PAGE followed by western blot with 82736-11-RR (Phospho-EGFR (Tyr1016) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Vinculin (66305-1-Ig) antibody as a loading control.



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 (Tyr1016) antibody (82736-11-RR, Clone: 250687B2) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1X10^6 A431 cells untreated (dashed lines) or treated with EGF which intracellularly stained with 0.25 ug Phospho-EGFR (Tyr1016) Recombinant monoclonal antibody (82736-11-RR, Clone:250687B2) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein