

For Research Use Only

Phospho-EGFR (Tyr1069) Recombinant monoclonal antibody, PBS Only

Catalog Number: 87711-2-PBS



Basic Information

Catalog Number: 87711-2-PBS	GenBank Accession Number: BC094761	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 1956	CloneNo.: 253169E2
Source: Rabbit	UNIPROT ID: P00533	
Isotype: IgG	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	

Applications

Tested Applications:
WB, FC (Intra), Indirect ELISA

Species Specificity:
human

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

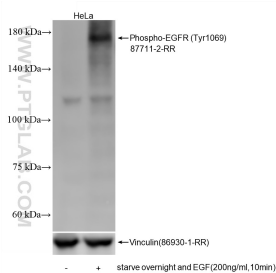
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

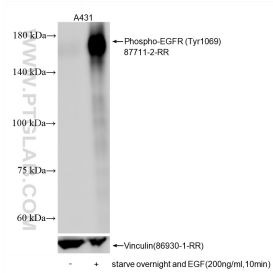
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

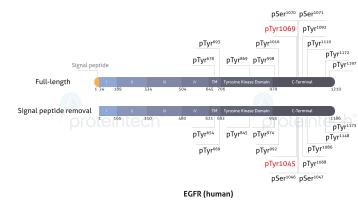
Selected Validation Data



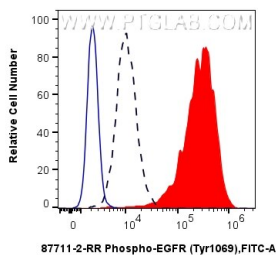
Non-treated HeLa cells and EGF (HZ-1326) treated HeLa cells were subjected to SDS PAGE followed by western blot with 87711-2-RR (Phospho-EGFR (Tyr1069) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Vinculin (86930-1-RR) antibody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



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. This data was developed using the same antibody clone with 87711-2-PBS in a different storage buffer formulation.



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



1X10⁶ A431 cells untreated (dashed lines) or treated with EGF which intracellularly stained with 0.13 μ 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 μ g Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).

