

For Research Use Only

# Phospho-EGFR (Tyr1016) Recombinant monoclonal antibody, PBS Only

Catalog Number: 82736-11-PBS



## Basic Information

<b>Catalog Number:</b> 82736-11-PBS	<b>GenBank Accession Number:</b> BC094761	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1956	<b>CloneNo.:</b> 250687B2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P00533	
<b>Isotype:</b> IgG	<b>Full Name:</b> epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)	
	<b>Calculated MW:</b> 1210 aa, 134 kDa	
	<b>Observed MW:</b> 170 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, 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). 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 -80°C.

**Storage Buffer:**  
PBS only, pH7.3

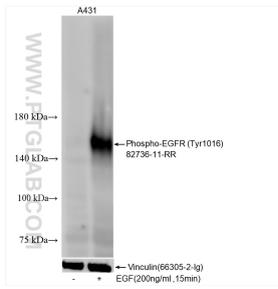
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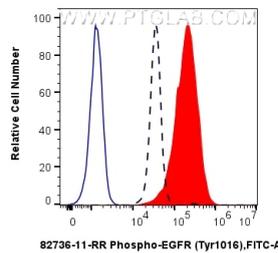
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## Selected Validation Data



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. This data was developed using the same antibody clone with 82736-11-PBS in a different storage buffer formulation.



1X10<sup>6</sup> 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

