

Anti-Phospho-EGFR (Y1068) Antibody [SD2055]

ET1612-30



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell, IF-Tissue, IP, FC
Molecular Wt:	Predicted band size: 134 kDa
Clone number:	SD2055

Description:	Epidermal growth factor mediates its effects on cell growth through its inter-action with a cell surface glycoprotein designated the EGF receptor. Binding of EGF or TGF alpha to the EGF receptor activates tyrosine-specific protein kinase activity intrinsic to the EGF receptor. The carboxy terminal tyrosine residues on EGFR, Tyr 1068 and Tyr 1173, are the major sites of autophosphorylation, which occurs as a result of EGF binding. Once activated, EGFR mediates the binding of the phosphotyrosine binding (PTB) domain of GRB2 through direct interactions with Tyr 1068 and Tyr 1086 and through indirect interactions with Tyr 1173 in the Ras signaling pathway. Tyr 1173 of EGFR also functions as a kinase substrate. Phosphorylation of Tyr 992, Tyr 1068 and Tyr 1086 is required for conformational change in the C-terminal tail of the EGF receptor.
Immunogen:	Synthetic phospho-peptide corresponding to residues surrounding Tyr1068 of human EGFR.
Positive control:	A431 treated with 100ng/mL EGF for 30 minutes cell lysate, A431 treated with 100ng/mL EGF for 30 minutes, A431.
Subcellular location:	Cell membrane, Endoplasmic reticulum membrane, Golgi apparatus membrane, Nucleus membrane, Endosome, Nucleus, Secreted.
Database links:	SwissProt: P00533 Human
Recommended Dilutions:	
WB	1:500-1:5,000
IF-Cell	1:5,000
IF-Tissue	1:50-1:200
FC	1:1,000
IP	Use at an assay dependent concentration.
Storage Buffer:	1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% SodiumAzide.
Storage Instruction:	Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.
Purity:	Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

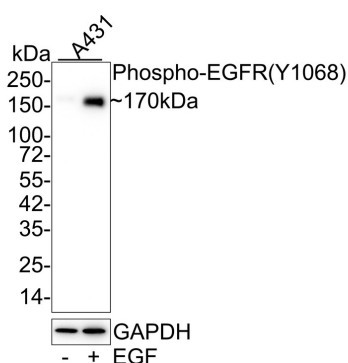


Fig1: Western blot analysis of Phospho-EGFR (Y1068) on different lysates with Rabbit anti-Phospho-EGFR (Y1068) antibody (ET1612-30) at 1/5,000 dilution.

Lane 1: A431 cell lysate

Lane 2: A431 treated with 100ng/mL EGF for 30 minutes cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 134 kDa

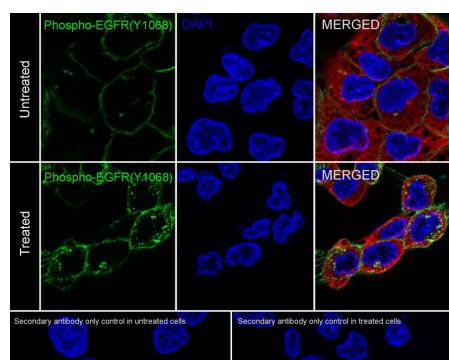
Observed band size: 170 kDa

Exposure time: 24 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1612-30) at 1/5,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Immunocytochemistry analysis of A431 cells untreated / treated with 100ng/mL EGF for 30 minutes labeling Phospho-EGFR (Y1068) with Rabbit anti-Phospho-EGFR (Y1068) antibody (ET1612-30) at 1/5,000 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Phospho-EGFR (Y1068) antibody (ET1612-30) at 1/5,000 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (HA601187, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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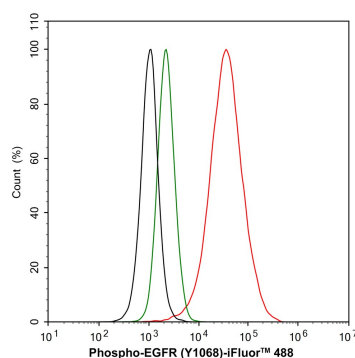


Fig3: Flow cytometric analysis of A431 cells labeling Phospho-EGFR (Y1068).

Cells were fixed and permeabilized. Then stained with the primary antibody (ET1612-30, 1/1,000) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4℃ for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4℃. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Zhang W et al. A Selected *Lactobacillus rhamnosus* Strain Promotes EGFR-Independent Akt Activation in an Enterotoxigenic *Escherichia coli* K88-Infected IPEC-J2 Cell Model. *PLoS One* 10:e0125717 (2015).
2. Pan T et al. Cytohesins/ARNO: the function in colorectal cancer cells. *PLoS One* 9:e90997 (2014).

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