

Anti-Phospho-EGFR (Y1110) Antibody [PSH27-58]

HA724705



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell, IP
Molecular Wt:	Predicted band size: 134 kDa
Clone number:	PSH27-58

Description: The epidermal growth factor receptor (EGFR; ErbB-1; HER1 in humans) is a transmembrane protein that is a receptor for members of the epidermal growth factor family (EGF family) of extracellular protein ligands. The epidermal growth factor receptor is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR (ErbB-1), HER2/neu (ErbB-2), Her 3 (ErbB-3) and Her 4 (ErbB-4). In many cancer types, mutations affecting EGFR expression or activity could result in cancer. Deficient signaling of the EGFR and other receptor tyrosine kinases in humans is associated with diseases such as Alzheimer's, while over-expression is associated with the development of a wide variety of tumors. Interruption of EGFR signalling, either by blocking EGFR binding sites on the extracellular domain of the receptor or by inhibiting intracellular tyrosine kinase activity, can prevent the growth of EGFR-expressing tumours and improve the patient's condition.

Immunogen: Synthetic phospho-peptide corresponding to residues surrounding Tyr1110 of Human EGFR.

Positive control: A431 treated with 100ng/mL EGF for 30 minutes cell lysate.

Subcellular location: Cell membrane, Nucleus membrane, Nucleus, Endoplasmic reticulum membrane, Golgi apparatus membrane.

Database links: SwissProt: P00533 Human

Recommended Dilutions:

WB	1:5,000
IF-Cell	1:500
IP	1-2µg/sample

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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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

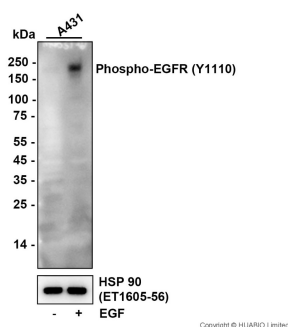


Fig1: Western blot analysis of Phospho-EGFR (Y1110) on different lysates with Rabbit anti-Phospho-EGFR (Y1110) antibody (HA724705) at 1/5,000 dilution.

Lane 1: A431 (Human epidermoid carcinoma skin squamous cell) cell lysate

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

Lysates/proteins at 15 µg/Lane.

Exposure time: 42 seconds; ECL: K1801

Blocking: 5% NFDM/TBST, 1 hour at room temperature

Primary antibody: HA724705, 1/5,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDM/TBST, 1 hour at room temperature

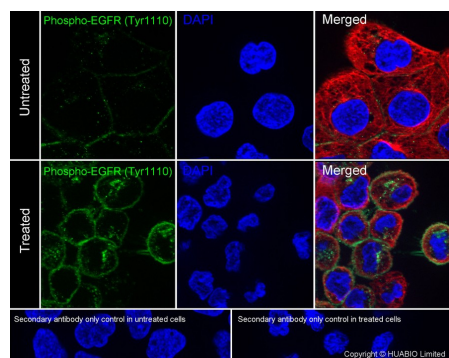
Predicted band size: 134 kDa

Observed band size: 175 kDa

Fig2: Application: Immunocytochemistry (IF-cell)

Species: Human

Sample: A431 (Human epidermoid carcinoma skin squamous cell) treated with or without 100ng/mL EGF for 30 minutes



Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA724705, 1/500, overnight at 4°C.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.

Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4°C. The nuclear counterstain was DAPI (Blue).

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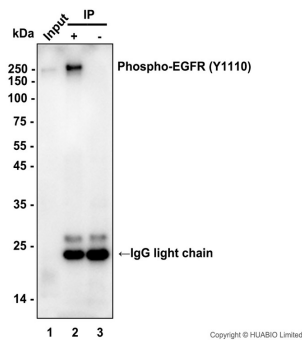
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Fig3: Immunoprecipitation (IP)

Phospho-EGFR (Y1110) was immunoprecipitated in 0.2 mg A431 (Human epidermoid carcinoma skin squamous cell) treated with 100ng/mL EGF for 30 minutes cell lysate with HA724705 at 2 µg/10 µl beads. Western blot was performed from the immunoprecipitate using HA724705 at 1/5,000 dilution. HRP Conjugated Rabbit IgG kappa light chain Mouse Monoclonal Antibody (M1208-2) at 1/5,000 dilution was used for 1 hour at room temperature.



Lane 1: A431 treated with 100ng/mL EGF for 30 minutes cell lysate (input)

Lane 2: HA724705 IP in A431 treated with 100ng/mL EGF for 30 minutes cell lysate

Lane 3: Rabbit IgG instead of HA724705 in A431 treated with 100ng/mL EGF for 30 minutes cell lysate

Exposure time: 30 seconds

Blocking: 5% NFDM/TBST, 1 hour at room temperature

Primary dilution: HA724705, 1/5,000 in primary antibody dilution buffer (K1803), 2 hours at room temperature

Predicted band size: 134 kDa

Observed band size: 175 kDa

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

Background References

- 1. Seo D et al. Targeted Therapies for EGFR Exon 20 Insertion Mutation in Non-Small-Cell Lung Cancer. Int J Mol Sci. 2024 May
- 2. Grant C et al. Neoadjuvant EGFR-TKI therapy in Non-Small cell lung cancer. Cancer Treat Rev. 2024 May