

Anti-Phospho-EGFR (Y845) Antibody [JE46-77]

HA721488



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 134 kDa
Clone number:	JE46-77

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. Epidermal growth factor and its receptor was discovered by Stanley Cohen of Vanderbilt University. Cohen shared the 1986 Nobel Prize in Medicine with Rita Levi-Montalcini for their discovery of growth factors. 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 phosphopeptide corresponding to residues surrounding Tyr845 of human EGFR protein.

Positive control: A431 treated with 100ng/mL EGF for 10 minutes whole cell lysate.

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

Database links: SwissProt P00533 Human

Recommended Dilutions:
WB 1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% SodiumAzide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

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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Images

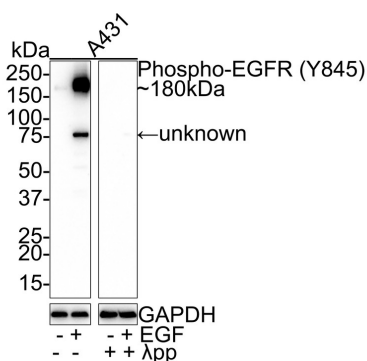


Fig1: Western blot analysis of Phospho-EGFR (Y845) on different lysates with Rabbit anti-Phospho-EGFR (Y845) antibody (HA721488) at 1/1,000 dilution.

Lane 1: A431 whole cell lysate

Lane 2: A431 treated with 100ng/mL EGF for 10 minutes whole cell lysate

Lane 3: A431 whole cell lysate treated with λ pp for 1 hour

Lane 4: A431 treated with 100ng/mL EGF for 10 minutes whole cell lysate treated with λ pp for 1 hour

Lysates/proteins at 20 μ g/Lane.

Predicted band size: 134 kDa

Observed band size: 180/75 kDa

Exposure time: 3 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA721488) at 1/1,000 dilution was used in 5% NFDN/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

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

Background References

1. Harrison PT et al. Rare epidermal growth factor receptor (EGFR) mutations in non-small cell lung cancer. *Semin Cancer Biol.* 2020 Apr
2. Levantini E et al. EGFR signaling pathway as therapeutic target in human cancers. *Semin Cancer Biol.* 2022 Oct

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