

Anti-Phospho-ErbB3/HER3 (Y1289) Antibody [JE51-25] HA722178



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell
Molecular Wt:	Predicted band size: 148 kDa
Clone number:	JE51-25

Description: The EGF receptor family comprises several related receptor tyrosine kinases that are frequently overexpressed in a variety of carcinomas. Members of this receptor family include EGFR (HER1), Neu (ErbB-2, HER2), ErbB-3 (HER3) and ErbB-4 (HER4), which form either homodimers or heterodimers upon ligand binding. Full length ErbB-3 is overexpressed in human mammary tumors. The ErbB-3 gene also produces several alternative variants, including a secreted form which negatively regulates heregulin stimulated ErbB activation. ErbB-3 heterodimerizes with Neu and binds heregulin in order to activate phosphoinositide (PI) 3-kinase. The recruitment and activation of PI 3-kinase occurs via its interaction with phosphorylated YXXM motifs in the carboxy terminus of ErbB-3.

Immunogen: Synthetic phosphopeptide corresponding to a region surrounding Tyr1289 of Human ErbB3.

Positive control: MCF7 serum starved for 6 hours then add 10nM Neuregulin-1 for 10 minutes cell lysate, MCF7 cells serum starved for 6 hours then add 10nM Neuregulin-1 for 10 minutes.

Subcellular location: Cell membrane, secreted.

Database links: SwissProt: P21860 Human

Recommended Dilutions:

WB	1:1,000
IF-Cell	1:100

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

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

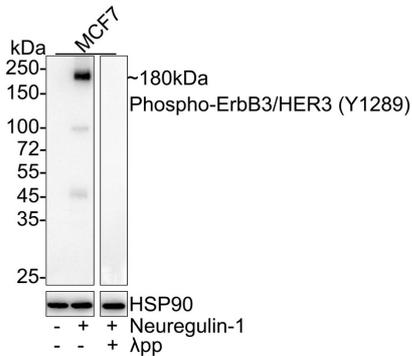


Fig1: Western blot analysis of Phospho-ErbB3/HER3 (Y1289) on different lysates with Rabbit anti-Phospho-ErbB3/HER3 (Y1289) antibody (HA722178) at 1/1,000 dilution.

Lane 1: MCF7 cell lysate

Lane 2: MCF7 serum starved for 6 hours then add 10nM Neuregulin-1 for 10 minutes cell lysate

Lane 3: MCF7 serum starved for 6 hours then add 10nM Neuregulin-1 for 10 minutes cell lysate, then the membrane treated with λ pp for 1 hour

Lysates/proteins at 20 μ g/Lane.

Predicted band size: 148 kDa

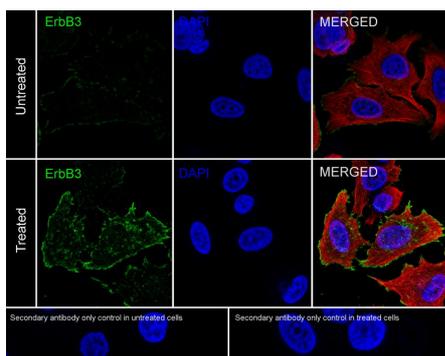
Observed band size: 180 kDa

Exposure time: 3 minutes; ECL: K1801;

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 (HA722178) at 1/1,000 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 MCF7 cells serum starved for 6 hours then add 10nM Neuregulin-1 for 10 minutes labeling Phospho-ErbB3/HER3 (Y1289) with Rabbit anti-Phospho-ErbB3/HER3 (Y1289) antibody (HA722178) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 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-ErbB3/HER3 (Y1289) antibody (HA722178) at 1/100 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 (M1305-2, 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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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Sağsöz H. et. al. Expression and localisation of epidermal growth factor receptors and their ligands in the lower genital tract of cycling cows. *Reprod Fertil Dev.* 2019 Jul 4.
2. Dietrich M. et. al. Protein kinase C regulates ErbB3 turnover. *Exp Cell Res.* 2019 Jun 21.

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