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Phospho-ErbB3/HER3 -Y1221+Y1222 Rabbit mAb

Catalog No.: AP1661 Recombinant

Basic Information

Observed MW
185 kDa

Calculated MW
62-138 kDa

Category
Primary antibody

Applications
WB,IHC-P,ELISA

Cross-Reactivity
Human

CloneNo number
ARC4249

Background

This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized.

Recommended Dilutions

WB	1:5000 - 1:30000
IHC-P	1:800 - 1:3200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10

Immunogen Information

Gene ID
2064

Swiss Prot
P04626

Immunogen
This information is considered to be commercially sensitive.

Synonyms
NEU; NGL; HER2; TKR1; CD340; HER-2; VSCN2; MLN 19; MLN-19; c-ERB2; c-ERB-2; HER-2/neu; p185(erbB2)

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

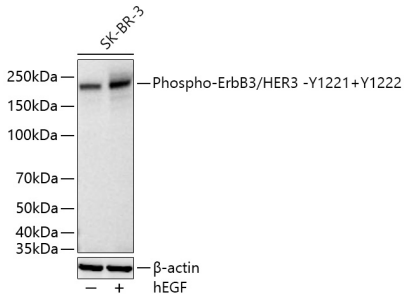
Source
Rabbit

Isotype
IgG

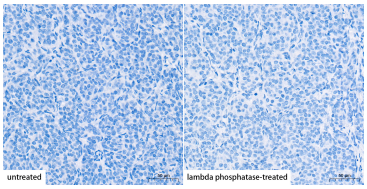
Purification
Affinity purification

Storage
Store at -20℃

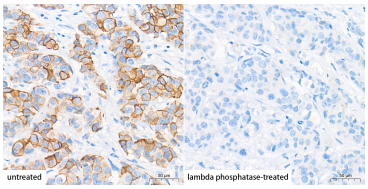
Validation Data



Western blot analysis of lysates from SK-BR-3 cells using Phospho-ErbB3/HER3 -Y1221+Y1222 Rabbit mAb (AP1661) at 1:10000 dilution incubated overnight at 4°C. SK-BR-3 cells were treated with hEGF (100 ng/mL) for 5 minutes after serum starvation overnight. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1 s.



Immunohistochemistry analysis of paraffin-embedded Human breast cancer (HER2 0) tissue (Negative control), untreated (left) and lambda phosphatase-treated (right), using Phospho-ErbB3/HER3 -Y1221+Y1222 Rabbit mAb (AP1661) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human breast cancer (HER2 3+) tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-ErbB3/HER3 -Y1221+Y1222 Rabbit mAb (AP1661) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.