

HER2/ErbB2 Rabbit mAb

Catalog No.: A21248 **Recombinant** **6 Publications**

Basic Information

Observed MW

185kDa

Calculated MW

138kDa

Category

Primary antibody

Applications

WB,IF-P,IHC-P,mIHC,ELISA

Cross-Reactivity

Human

CloneNo number

ARC5120-02

Recommended Dilutions

WB 1:2000 - 1:4000

IF-P 1:200 - 1:800

IHC-P 1:200 - 1:800

mIHC 1:200 - 1:800

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Contact

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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.

Immunogen Information

Gene ID

2064

Swiss Prot

P04626

Immunogen

Recombinant protein (or fragment). 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); HER2/ErbB2

Product Information

Source

Rabbit

Isotype

IgG

Purification

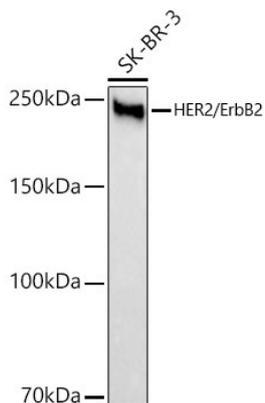
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of lysates from SK-BR-3 cells, using HER2/ErbB2 Rabbit mAb (A21248) at 1:2000 dilution.

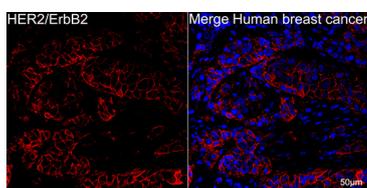
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

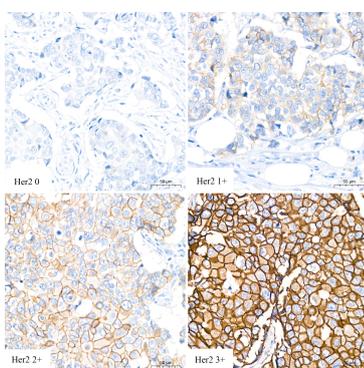
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

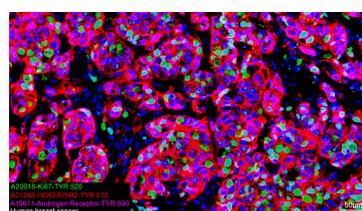
Exposure time: 1s.



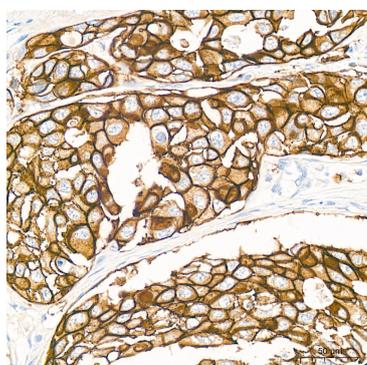
Confocal imaging of paraffin-embedded Human breast cancer tissue using HER2/ErbB2 Rabbit mAb (A21248, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Human breast cancer using HER2/ErbB2 Rabbit mAb (A21248) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



The multiplex IHC analysis on paraffin-embedded Human breast cancer tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : Ki67 Rabbit mAb (A20018, 1:500) with TSA-TYR-520 (Green), HER2/ErbB2 Rabbit mAb (A21248, 1:200) with TSA-TYR-570 (Red), and Androgen Receptor Rabbit mAb (A19611, 1:400) with TSA-TYR-690 (Magenta). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 20x objective lens.



Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using HER2/ErbB2 Rabbit mAb (A21248) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M

Validation Data

Citrate Buffer (pH 6.0) prior to IHC staining.