**Product Name: ERBB2 Mouse Monoclonal Antibody**
**Catalog #: AMM80650**
For research use only.

## Summary

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|---|---|
| **Description** | Mouse monoclonal Antibody |
| **Host** | Mouse |
| **Application** | IHC,ELISA |
| **Reactivity** | Human |
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | Mouse IgG2b |
| **Clonality** | Monoclonal |
| **Form** | Liquid |
| **Concentration** | 1mg/ml |
| **Storage** | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| **Shipping** | Ice bags |
| **Buffer** | PBS containing 0.03% sodium azide. |
| **Purification** | Affinity Purification |

## Application

| | |
|---|---|
| **Dilution Ratio** | IHC 1:200-1:1000,ELISA 1:5000-1:20000 |
| **Molecular Weight** | / |

## Antigen Information

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|---|---|
| **Gene Name** | ERBB2 |
| **Alternative Names** | NEU; HER2; TKR1; CD340; HER-2 |
| **Gene ID** | 2064.0 |
| **SwissProt ID** | P04626 |
| **Immunogen** | Purified recombinant fragment of human ERBB2 (aa750-987) expressed in E. Coli. |

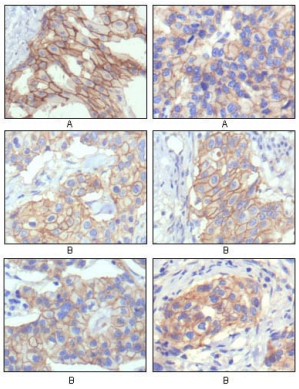
## Background

ERBB2: v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian). 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

## Research Area

## Image Data




Immunohistochemical analysis of paraffin-embedded human breast intraductal carcinama tissues (A) and breast infiltrating ductal carcinama tissues (B) showing membrane localization using ERBB2 mouse mAb with DAB staining.