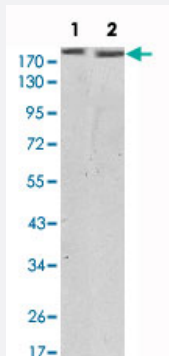


# ERBB2 monoclonal antibody, clone 6C2

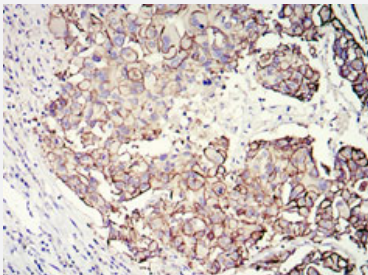
Catalog # MAB10604      Size 100 uL

## Applications



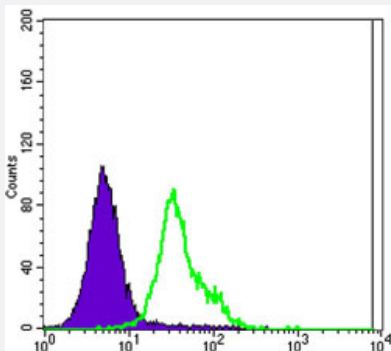
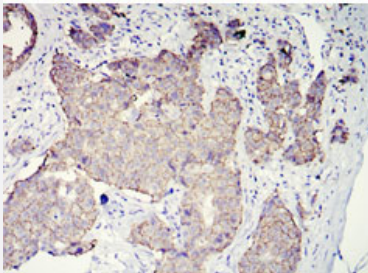
### Western Blot (Cell lysate)

Western blot analysis using ERBB2 monoclonal antibody, clone 6C2 (Cat # MAB10604) against SK-BR-3 (1) and MCF-7 (2) cell lysate.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human galactophore tumour using ERBB2 monoclonal antibody, clone 6C2 (Cat # MAB10604) with DAB staining.



### Flow Cytometry

Flow cytometric analysis of MCF-7 cells using ERBB2 monoclonal antibody, clone 6C2 (Cat # MAB10604) (green) and negative control (purple).

## Specification

|                             |                                                                                                                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Mouse monoclonal antibody raised against partial recombinant ERBB2.                                                                                                                         |
| <b>Immunogen</b>            | Recombinant protein corresponding to amino acids 750-987 of human ERBB2.                                                                                                                    |
| <b>Host</b>                 | Mouse                                                                                                                                                                                       |
| <b>Theoretical MW (kDa)</b> | 180                                                                                                                                                                                         |
| <b>Reactivity</b>           | Human                                                                                                                                                                                       |
| <b>Form</b>                 | Liquid                                                                                                                                                                                      |
| <b>Isotype</b>              | IgG1                                                                                                                                                                                        |
| <b>Recommend Usage</b>      | ELISA (1:10000)<br>Western Blot (1:500-1:2000)<br>Immunohistochemistry (1:200-1:1000)<br>Flow cytometry (1:200-1:400)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>       | In ascites (0.03% sodium azide)                                                                                                                                                             |
| <b>Storage Instruction</b>  | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                      |
| <b>Note</b>                 | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                      |

## Applications

- Western Blot (Cell lysate)

Western blot analysis using ERBB2 monoclonal antibody, clone 6C2 (Cat # MAB10604) against SK-BR-3 (1) and MCF-7 (2) cell lysate.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human galactophore tumour using ERBB2 monoclonal antibody, clone 6C2 (Cat # MAB10604) with DAB staining.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of MCF-7 cells using ERBB2 monoclonal antibody, clone 6C2 (Cat # MAB10604) (green) and negative control (purple).

## Gene Info — ERBB2

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">2064</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Name          | ERBB2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Alias         | CD340, HER-2, HER-2/neu, HER2, NEU, NGL, TKR1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene Description   | v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Omim ID            | <a href="#">137215</a> <a href="#">137800</a> <a href="#">164870</a> <a href="#">211980</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Summary       | <p>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. [provided by RefSeq]</p> |
| Other Designations | c-erb B2/neu protein erbB-2 herstatin neuroblastoma/glioblastoma derived oncogene homolog v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Pathway

- [Adherens junction](#)
- [Bladder cancer](#)
- [Calcium signaling pathway](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Focal adhesion](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)

- [Pathways in cancer](#)
- [Prostate cancer](#)

## Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cell Transformation](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colorectal Neoplasms](#)
- [Disease Progression](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Fibroadenoma](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Head and Neck Neoplasms](#)
- [Heart Diseases](#)
- [Kidney Failure](#)
- [Laryngeal Neoplasms](#)
- [Lung Neoplasms](#)

- [Lymphatic Metastasis](#)
- [Mouth Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Papillomavirus Infections](#)
- [Pharyngeal Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Tooth Abnormalities](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Werner syndrome](#)