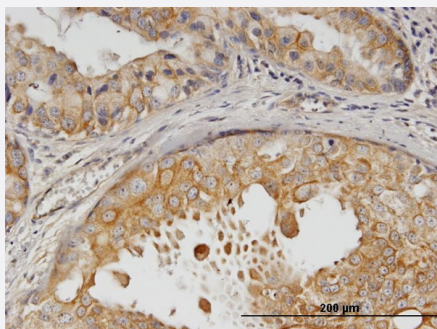


ERBB2 monoclonal antibody (M05), clone 3B1

Catalog # H00002064-M05

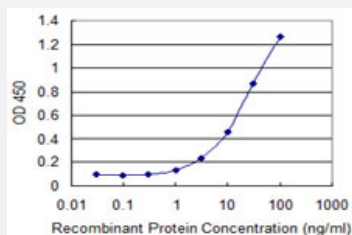
Size 100 ug

Applications



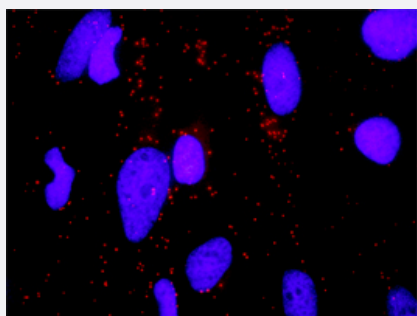
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to ERBB2 on formalin-fixed paraffin-embedded human breast cancer. [antibody concentration 3 ug/ml]



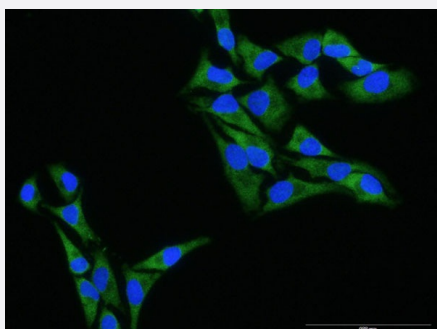
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ERBB2 is 0.3 ng/ml as a capture antibody.



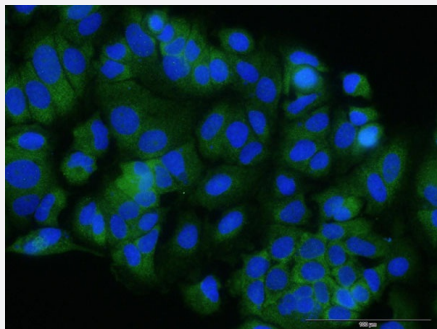
In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between ERBB3 and ERBB2. HeLa cells were stained with anti-ERBB3 rabbit purified polyclonal 1:1200 and anti-ERBB2 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



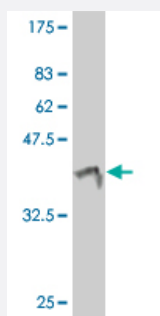
Immunofluorescence

Immunofluorescence of monoclonal antibody to ERBB2 on HeLa cell . [antibody concentration 10 ug/ml]



Immunofluorescence

Immunofluorescence of monoclonal antibody to ERBB2 on MCF-7 cell .
[antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant ERBB2.
Immunogen	ERBB2 (NP_004439, 22 a.a. ~ 121 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	STQVCTGTDMLRLPASPETHLDMLRHLYQGCQVVQGNLELTYPNASLSFLQDIQEVQGYVLIAHNQVRQVPLQRLRVRGTQLFEDNYALAVLDNGD
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (93); Rat (93)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

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

Immunoperoxidase of monoclonal antibody to ERBB2 on formalin-fixed paraffin-embedded human breast cancer. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ERBB2 is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between ERBB3 and ERBB2. HeLa cells were stained with anti-ERBB3 rabbit purified polyclonal 1:1200 and anti-ERBB2 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

- Immunofluorescence

Immunofluorescence of monoclonal antibody to ERBB2 on HeLa cell . [antibody concentration 10 ug/ml]

- Immunofluorescence

Immunofluorescence of monoclonal antibody to ERBB2 on MCF-7 cell . [antibody concentration 10 ug/ml]

Gene Info — ERBB2

Entrez GeneID [2064](#)

GeneBank Accession# [NM_004448](#)

Protein Accession# [NP_004439](#)

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	137215 137800 164870 211980
Gene Ontology	Hyperlink
Gene Summary	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]
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](#)