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Anti-HER2/ErbB2 Antibody
Mouse Anti Human Monoclonal Antibody
Catalog # AP53430

Specification

Anti-HER2/ErbB2 Antibody - Product Information

Application	**WB**
Primary Accession	P04626
Other Accession	NM_004448
Reactivity	**Transfected**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Immunogen	**Purified recombinant human HER2/ErbB2 protein fragments expressed in E.coli.**
Purification	**Affinity purified**
Calculated MW	**138 KDa**

Anti-HER2/ErbB2 Antibody - Additional Information

Gene ID 2064

Other Names
Verb b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog;C erb B2/neu protein;CD340;CD340 antigen;Cerb B2/neu protein;CerbB2;Erb b2 receptor tyrosine kinase 2;ERBB2;ERBB2_HUMAN;HER 2;HER 2/NEU;HER2;Herstatin;Human epidermal growth factor receptor 2;Metastatic lymph node gene 19 protein;MLN 19;MLN19;NEU;NEU proto oncogene;Neuro/glioblastoma derived oncogene homolog;Neuroblastoma/glioblastoma derived oncogene homolog;NGL;p185erbB2;Proto-oncogene c-ErbB-2;Proto-oncogene Neu;Receptor tyrosine-protein kinase erbB-2;TKR1;Tyrosine kinase type cell surface receptor HER2;Tyrosine kinase-type cell surface receptor HER2;V erb b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog);V erb b2 avian erythroblastic leukemia viral oncogene homolog 2;V erb b2 avian erythroblastic leukemia viral oncoprotein 2;V erb b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian);V erb b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog;Verb b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian).

Dilution
WB~~1:1000

Format
Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-HER2/ErbB2 Antibody - Protein Information

Name ERBB2

Synonyms HER2, MLN19, NEU, NGL

Function
Protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently needs a coreceptor for ligand binding. Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Regulates outgrowth and stabilization of peripheral microtubules (MTs). Upon ERBB2 activation, the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows the localization of MACF1 to the cell membrane, which is required for microtubule capture and stabilization.

Cellular Location
Cell membrane; Single-pass type I membrane protein. Cell projection, ruffle membrane; Single-pass type I membrane protein. Note=Internalized from the cell membrane in response to EGF stimulation. [Isoform 2]: Cytoplasm. Nucleus.

Tissue Location
Expressed in a variety of tumor tissues including primary breast tumors and tumors from small bowel, esophagus, kidney and mouth.

Anti-HER2/ErbB2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-HER2/ErbB2 Antibody - Images

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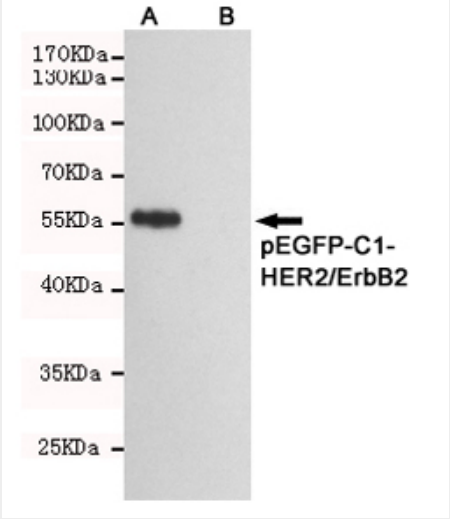

Western blot detection of HER2/ErbB2 fragment in CHO-K1 cell lysate (B) and CHO-K1 transfected by pEGFP-C1-HER2/ErbB2 (A) cell lysate using HER2/ErbB2 mouse mAb (1:1000 diluted).Predicted band size: 55kDa.Observed band size:55kDa.

Anti-HER2/ErbB2 Antibody - Background

Protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently needs a coreceptor for ligand binding. Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a