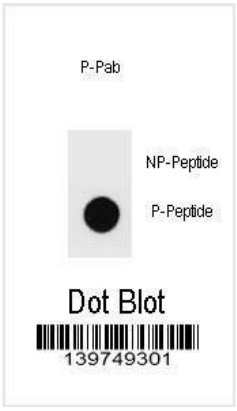
ERBB2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ERBB2, Polyclonal Antibody
Full Product Name	ERBB2, phosphorylated (S999) (Erbb2, Kiaa3023, Neu, Receptor tyrosine-protein kinase erbB-2, Proto-oncogene Neu, Proto-oncogene c-ErbB-2, p185erbB2, CD340)
Product Gene Name	anti-ERBB2 antibody
Product Synonym Names	Anti -ERBB2, phosphorylated (S999) (Erbb2, Kiaa3023, Neu, Receptor tyrosine-protein kinase erbB-2, Proto-oncogene Neu, Proto-oncogene c-ErbB-2, p185erbB2, CD340)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Mouse
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	137,910 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (37844167..37884915). Location: 17q12
OMIM	137215
3D Structure	ModBase 3D Structure for P04626
Immunogen	Phospho-mouse ERBB2-S999 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S999 of mouse ERBB2.
Product Categories/Family for anti-ERBB2 antibody	Antibodies; Abs to Protein Kinases
Applications Tested/Suitable for anti-ERBB2 antibody	ELISA (EL/EIA), Gel Shift Assay (GS/EMSA)
Application Notes for anti-ERBB2 antibody	Suitable for use in Dot Blot, ELISA Dilution: ELISA: 1:1,000 Dot blot 1:500
Related Product Information for anti-ERBB2 antibody	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.

Other Notes	Small volumes of anti-ERBB2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ERBB2 purchase	MBS6011730 is an antibody targeting ERBB2. Also known as ERBB2, phosphorylated (S999) (Erbb2, Kiaa3023, Neu, Receptor tyrosine-protein kinase erbB-2, Proto-oncogene Neu, Proto-oncogene c-ErbB-2, p185erbB2, CD340). Reactive in Mouse. Host: Rabbit.



Dot Blot (DB) of anti-ERBB2 antibody
Dot blot analysis of Phospho-mouse ERBB2-S999 Antibody Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ERBB2. It may not necessarily be applicable to this product.

NCBI GI #	6857751
NCBI GeneID	2064
NCBI Accession #	AAF30295.1
UniProt Primary Accession #	P04626
UniProt Secondary Accession #	Q14256; Q6LDV1; Q9UMK4; B2RZG3; B4DHN3
UniProt Related Accession #	P04626
NCBI Official Full Name	ERBB2
NCBI Official Synonym Full Names	v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2
NCBI Official Symbol	ERBB2
NCBI Official Synonym Symbols	NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu
UniProt Protein Name	Receptor tyrosine-protein kinase erbB-2
UniProt Synonym Protein Names	Metastatic lymph node gene 19 protein; MLN 19; Proto-oncogene Neu; Proto-oncogene c-ErbB-2; Tyrosine kinase-type cell surface receptor HER2; p185erbB2
Protein Family	Receptor tyrosine-protein kinase
UniProt Gene Name	ERBB2
UniProt Synonym Gene Names	HER2; MLN19; NEU; NGL; MLN 19
UniProt Entry Name	ERBB2_HUMAN
NCBI Protein Information	receptor tyrosine-protein kinase erbB-2; herstatin; p185erbB2; proto-oncogene Neu; c-erb B2/neu protein; proto-oncogene c-ErbB-2; metastatic lymph node gene 19 protein; neuro/glioblastoma derived oncogene homolog; tyrosine kinase-type cell surface receptor HER2; neuroblastoma/glioblastoma derived oncogene homolog; v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog

UniProt Comments for ERBB2	HER2: a proto-oncogenic receptor tyrosine kinase of the EGFR family. Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. Not activated by EGF, TGF- alpha and amphiregulin. Amplified in breast cancer. Overexpression induces constitutive activity, and the gene is amplified or overexpressed in up to 30% of breast cancers, correlating with poor survival. The antibody Herceptin is approved for treatment of metastatic breast cancer with HER2 amplification/overexpression. Somatic mutations seen in 4% of lung cancers and also in breast, gastric, ovarian cancer and glioblastoma. One SNP shows predisposition to breast and gastric cancer. Inhibitors: Herceptin, lapatinib, PKI-166, EKB-569, CI-1033. Protein type: Protein kinase, tyrosine (receptor); Membrane protein, integral; Kinase, protein; EC 2.7.10.1; Oncoprotein; Protein kinase, TK; TK group; EGFR family Chromosomal Location of Human Ortholog: 17q12 Cellular Component: basolateral plasma membrane; perinuclear region of cytoplasm; cytoplasm; apical plasma membrane; integral to membrane; plasma membrane; endosome membrane; cytoplasmic vesicle; nucleus; receptor complex Molecular Function: protein dimerization activity; protein C-terminus binding; identical protein binding; protein binding; transmembrane receptor activity; ErbB-3 class receptor binding; protein heterodimerization activity; protein-tyrosine kinase activity; growth factor binding; transmembrane receptor protein tyrosine kinase activity; receptor signaling protein tyrosine kinase activity; protein phosphatase binding; ATP binding Biological Process: myelination; axon guidance; phosphoinositide 3-kinase cascade; peptidyl-tyrosine phosphorylation; positive regulation of cell adhesion; nerve growth factor receptor signaling pathway; wound healing; positive regulation of translation; protein amino acid autophosphorylation; heart development; motor axon guidance; signal transduction; enzyme linked receptor protein signaling pathway; protein amino acid phosphorylation; positive regulation of transcription from RNA polymerase I promoter; positive regulation of MAP kinase activity; cell surface receptor linked signal transduction; oligodendrocyte differentiation; neuromuscular junction development; negative regulation of immature T cell proliferation in the thymus; epidermal growth factor receptor signaling pathway; regulation of microtubule-based process; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; transcription, DNA-dependent; positive regulation of cell growth; regulation of angiogenesis; peripheral nervous system development; cell proliferation; positive regulation of transcription from RNA polymerase III promoter; innate immune response; positive regulation of protein amino acid phosphorylation; positive regulation of epithelial cell proliferation; transmembrane receptor protein tyrosine kinase signaling pathway Disease: Gastric Cancer; Lung Cancer; Glioma Susceptibility 1
Research Articles on ERBB2	**1.** The level of HER2/neu amplification tends to increase from the primary tumour to the paired metastases in a significant proportion of patients with HER2-positive metastatic breast neoplasms.
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