

Phospho-ErbB 2 Positive Control | ErbB 2 positive control

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CATALOG #
AAA75977

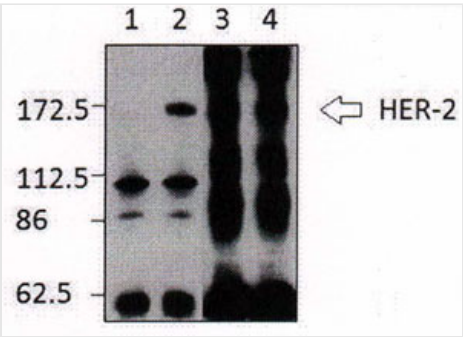
APPLICATIONS
Western Blot

PRODUCT SYNONYMS

Phospho-ErbB 2; Phospho-ErbB 2 Positive Control; Verb b2 erythroblastic leukemia viral oncogene homolog 2; neuro/glioblastoma derived oncogene homolog; c erb B2/neu protein; CD340; CerbB2; Erb B2; Erythroblastosis Virus; HER 2/neu; Herstatin; Metastatic lymph node gene 19 protein; MLN19; NEU; Neuro Glioblastoma Derived Oncogene Homolog; NGL; p185 ErbB2; Receptor Protein Tyrosine Kinase ErbB2 Precursor; TKR1; Tyrosine kinase-type cell surface receptor HER2; v erb b2 erythroblastic leukemia viral oncogene homolog 2 neuro/glioblastoma derived oncogene homolog (avian); verbb2 antibody; ErbB 2 positive control

PRODUCT SPECIFICATIONS

Form/Format	Western Blot Positive Control in SDS sample buffer
Concentration	Empirically set for optimal signal-to-noise ratio (varies by lot)
Sequence Length	1255
Applicable Applications for ErbB 2 positive control	WB (Western Blot)
Immunogen	Purified Protein
Expression	Expressed in a variety of tumor tissues including primary breast tumors and tumors from small bowel, esophagus, kidney and mouth.
Molecular Function	Activator, Kinase, Receptor, Transferase, Tyrosine-protein kinase
Structure	Homodimer. Heterodimer with EGFR, ERBB3 and ERBB4. Part of a complex with EGFR and either PIK3C2A or PIK3C2B. May interact with PIK3C2B when phosphorylated on Tyr-1196. Interacts with PRKCABP and PLXNB1. Interacts (when phosphorylated on Tyr-1248) with MEMO1. Interacts with MUC1; the interaction is enhanced by heregulin (HRG).
Subcellular Location	Isoform 1: Cell membrane; Single-pass type I membrane protein, Cytoplasm;perinuclear region, Nucleus. Isoform 2: Cytoplasm, Nucleus. Isoform 3: Cytoplasm, Nucleus.
Preparation and Storage	-20° degree C for long term storage



Application Data
Immunoprecipitation and Western Blot of Herceptin-2 with IP by and WB with "Please inquire".
Lane 3,4) IP by and WB by Apparent MW is 174-175 kDa. Dilutions are for reference only.
Applications not listed above are not necessarily precluded from working with this antibody.
Investigators intending to use an application that has not been verified can request a complimentary sample.

ADDITIONAL INFORMATION

Related Product Information for ErbB 2 positive control

Description:
Western Blot Positive Control for Phospho Receptor tyrosine-protein kinase erb-2 (PHER2)

Overview:
The tyrosine kinase receptor erbB2, also known in humans as HER2, is a member of the epidermal growth factor receptor (EGFR or erbB1) family, which also includes erbB3 and erbB4 that are gene products of proto-oncogenes. Protooncogenes play an important role in normal proliferation of cells. The interaction of proto-oncogenes with other tumor suppressor proteins (P53, P14ARF etc.) determine the normal or abnormal course of cell cycle and cell division leading to uncontrolled cell proliferation (1). HER2 is found on chromosome 17 and codes for a protein that serves as a cell surface receptor. These HER receptors determine the regulation of cell growth and differentiation in a complex manner. HER family receptors form homo- or hetero- dimers with other compounds. The activation of these homoheterodimeric complexes by ligand binding leads to activation of intrinsic tyrosine kinase activity that triggers a cascade of signal transduction activity in cell. Some of these signals are transduced across the cell membranes in to cytoplasm and triggers the gene activation. There are at least two humanized recombinant monoclonal antibodies (Trastuzumab and pertuzumab) that target extra cellular regions of the HER2 tyrosine kinase receptor and have been used in human trials for the treatment of breast cancer (2).
Herceptin-2 is a 1342 amino acid protein (approximate MW 170-172 kDa) when analyzed on reduced SOS-PAGE gels. HER2 is over expressed in cells of many cancer types. ErbB receptors bind to a family of growth factors, termed neuregulins/hereregulin (NRG/HRG), which comprise NRG-1, -2, -3, and -4 and include multiple variants. HER 2 is a receptor tyrosine kinase with intrinsic tyrosine kinase domain. The Phospho-Her2 antibody (MBS543807) is made against the phospho-Tyrosine containing peptide (aa 1127-1138) from rat HER2 protein.
The PHER2-selective antibodies were generated against unique antigenic sequences form HER2 protein that is not found in any other protein in the gene bank. The Phospho-HER2 antibodies were affinity purified over immobilized antigen based chromatography, and the purified immunoglobulins are stabilized in antibody stabilization buffer.

NCBI AND UNIPROT INFORMATION

NCBI GI #	306840
NCBI GeneID	2064
UniProt Accession #	P04626; Q14256; Q6LDV1; Q9UMK4; B2RZG3; B4DHN3; X5D2V5
NCBI Official Full Name	HER2 receptor
NCBI Official Synonym Full Names	erb-b2 receptor tyrosine kinase 2
NCBI Official Symbol	ERBB2
NCBI Official Synonym Symbols	NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu
NCBI Protein Information	receptor tyrosine-protein kinase erbB-2

UniProt Protein Name	Receptor tyrosine-protein kinase erbB-2
UniProt Gene Name	ERBB2
UniProt Synonym Gene Names	HER2; MLN19; NEU; NGL; MLN 19
UniProt Entry Name	ERBB2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/positive-control/phospho-erb-2/75977>