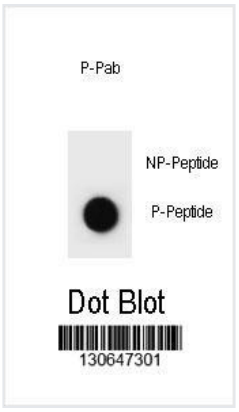
ERBB2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ERBB2, Polyclonal Antibody
Full Product Name	ERBB2, Phosphorylated (T1168) (Erbb2, Neu, Receptor tyrosine-protein kinase erbB-2, Epidermal growth factor receptor-related protein, Proto-oncogene Neu, Proto-oncogene c-ErbB-2, p185erbB2, p185neu, CD340) (FITC)
Product Gene Name	anti-ERBB2 antibody
Product Synonym Names	Erbb2; Neu; Receptor tyrosine-protein kinase erbB-2; Epidermal growth factor receptor-related protein; Proto-oncogene Neu; Proto-oncogene c-ErbB-2; p185erbB2; p185neu; CD340
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
3D Structure	ModBase 3D Structure for P06494
Immunogen	Rat ERBB2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T1168 of rat ERBB2.
Conjugate	FITC
Antigen Modification	Phosphorylated
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-ERBB2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-ERBB2 antibody	FLISA, Dot Blot (DB)
Application Notes for anti-ERBB2 antibody	FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ERBB2 antibody	Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Binds to the 5'-TCAAATTC-3' sequence in the MT-CO2 promoter and activates its transcription (By similarity).
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	MBS6296275 is an antibody targeting ERBB2. Also known as ERBB2, Phosphorylated (T1168) (Erbb2, Neu, Receptor tyrosine-protein kinase erbB-2, Epidermal growth factor receptor-related protein, Proto-oncogene Neu, Proto-oncogene c-ErbB-2, p185erbB2, p185neu, CD340) (FITC). Reactive in Rat. Host: Rabbit.



Dot Blot (DB) of anti-ERBB2 antibody
Dot blot analysis of rat ERBB2 Antibody (Phospho T1168) 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 #	3915663
NCBI GeneID	24337
UniProt Primary Accession #	P06494
UniProt Related Accession #	P06494
NCBI Official Full Name	Receptor tyrosine-protein kinase erbB-2
NCBI Official Synonym Full Names	erb-b2 receptor tyrosine kinase 2
NCBI Official Symbol	Erbb2
NCBI Official Synonym Symbols	neu; HER2/neu
UniProt Protein Name	Receptor tyrosine-protein kinase erbB-2
UniProt Synonym Protein Names	Epidermal growth factor receptor-related protein; Proto-oncogene Neu; Proto-oncogene c-ErbB-2; p185erbB2; p185neu; CD_antigen: CD340
Protein Family	Receptor tyrosine-protein kinase
UniProt Gene Name	Erbb2
UniProt Synonym Gene Names	Neu
NCBI Protein Information	receptor tyrosine-protein kinase erbB-2
NCBI Summary for ERBB2	may play a role in cell proliferation and differentiation [RGD, Feb 2006]
UniProt Comments for ERBB2	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 (). Interacts (preferentially with the tyrosine phosphorylated form) with CPNE3; this interaction occurs at the cell membrane and is increased in a growth factor heregulin-dependent manner ().
Research Articles on ERBB2	**1.** we performed a detailed time-course expression analysis of several NRG1 isoforms and ErbB receptors in the rat superficial digitorum flexor muscle after three types of median nerve injuries of different severities. We found that ErbB receptor expression was correlated with the innervated state of the muscle, with upregulation of ErbB2 clearly associated with the denervation state.

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