

ERBB2 Monoclonal Antibody

Catalog No.	E-AB-22037	Reactivity	H
Storage	Store at -20°C. Avoid freeze / thaw cycles.	Host	Mouse
Applications	WB	Isotype	IgG

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Images



Western Blot analysis of 1) Hela, 2) 293, 3) Jurkat cells using ERBB2 Monoclonal Antibody at dilution of 1:2000.

Immunogen Information

Immunogen	Synthetic Peptide
Swissprot	P04626
Synonyms	ERBB2,HER2,MLN19,NEU,NGL,Receptor tyrosine-protein kinase erbB-2,Metastatic lymph node gene 19 protein,MLN 19,Proto-oncogene Neu,Proto-oncogene c-ErbB-2,Tyrosine kinase-type cell surface receptor HER2,p185erbB2,CD340

Product Information

Calculated MW	138kDa
Observed MW	138kDa
Buffer	PBS with 0.02% sodium azide and 50% glycerol pH 7.4.
Purify	Protein A purification
Clone No.	Clone:2F1
Dilution	WB 1:500-3000

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 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. In the nucleus is involved in transcriptional regulation. Associates with the 5'-TCAAATTC-3' sequence in the PTGS2/COX-2 promoter and activates its transcription. Implicated in transcriptional activation of CDKN1A; the function involves STAT3 and SRC. Involved in the transcription of rRNA genes by RNA Pol I and enhances protein synthesis and cell growth.

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Applications: WB-Western Blot IHC-Immunohistochemistry IF-Immunofluorescence IP-Immunoprecipitation FC-Flow cytometry ChIP-Chromatin Immunoprecipitation Reactivity: H-Human R-Rat M-Mouse Mk-Monkey Dg-Dog Ch-Chicken Hm-Hamster Rb-Rabbit Sh-Sheep Pg-Pig Z-Zebrafish X-Xenopus C-Cow.