Data Sheet (Cat.No.TMAH-00401)

Anti-HER2/ERBB2 Antibody (2R301)

Product Details

Ig Type:	Human IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2R301
Purification:	Affinity-chromatography

Applications

Verified Activity:	The Binding Activity of Human ERBB2 with Anti-ERBB2 Recombinant Antibody Activity: Measured by its binding ability in a functional ELISA. Immobilized Human ERBB2 at 2 μg/mL can bind Anti-ERBB2 recombinant antibody, the EC50 is 2.455-3.565 ng/mL.
Application:	ELISA

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human ERBB2 Protein
Antigen Species:	Human
Gene ID:	2064
Uniprot ID:	P04626
Synonyms:	HER2;HERV7Q;herstatin;NGL;NEU;HERVW;ERVWE1;MLN19;ENVW;ERBB2;TKR1;CD340;MLN 19;EGFR2;HER-2;ENV
Biology Area:	Cancer, Tags & Cell Markers, Immunology, Signal transduction

Research 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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481