

ERBB2 / HER2 Antibody (aa1243-1255)
Rabbit Polyclonal Antibody
Catalog # ALS12148

Specification

ERBB2 / HER2 Antibody (aa1243-1255) - Product Information

Application	IHC
Primary Accession	P04626
Reactivity	Human, Mouse, Rat, Hamster, Monkey, Pig, Horse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	138kDa KDa

ERBB2 / HER2 Antibody (aa1243-1255) - Additional Information

Gene ID 2064

Other Names

Receptor tyrosine-protein kinase erbB-2, 2.7.10.1, 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, ERBB2, HER2, MLN19, NEU, NGL

Target/Specificity

Recognizes c-erbB-2 (185kD), but not c-erbB-1(EGF-R), c-erbB-3 or c-erbB-4.

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

ERBB2 / HER2 Antibody (aa1243-1255) is for research use only and not for use in diagnostic or therapeutic procedures.

ERBB2 / HER2 Antibody (aa1243-1255) - Protein Information

Name ERBB2

Synonyms HER2, MLN19, NEU, NGL

Function

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.

Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell projection, ruffle membrane; Single-pass type I membrane protein. Note=Internalized from the cell membrane in response to EGF stimulation. [Isoform 2]: Cytoplasm. Nucleus.

Tissue Location

Expressed in a variety of tumor tissues including primary breast tumors and tumors from small bowel, esophagus, kidney and mouth.

Volume

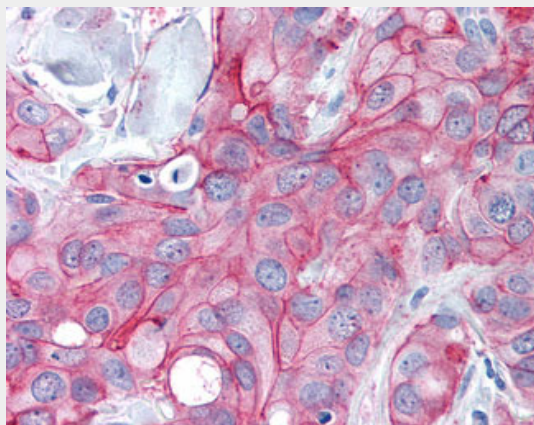
50 μ l

ERBB2 / HER2 Antibody (aa1243-1255) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ERBB2 / HER2 Antibody (aa1243-1255) - Images



Anti-ERBB2 / HER2 antibody IHC of human breast, carcinoma.

ERBB2 / HER2 Antibody (aa1243-1255) - 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.

ERBB2 / HER2 Antibody (aa1243-1255) - References

Yamamoto T.,et al.Nature 319:230-234(1986).
Coussens L.,et al.Science 230:1132-1139(1985).
Wakamatsu A.,et al.Submitted (OCT-2007) to the EMBL/GenBank/DDBJ databases.
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Tal M.,et al.Mol. Cell. Biol. 7:2597-2601(1987).