

Mouse Erbb2 Blocking Peptide (P1236)
Synthetic peptide
Catalog # BP21259a**Specification****Mouse Erbb2 Blocking Peptide (P1236) - Product Information**Primary Accession [P70424](#)**Mouse Erbb2 Blocking Peptide (P1236) - Additional Information****Gene ID** 13866**Other Names**Receptor tyrosine-protein kinase erbB-2,
Proto-oncogene Neu, Proto-oncogene
c-ErbB-2, p185erbB2, CD340, Erbb2,
Kiaa3023, Neu**Target/Specificity**The synthetic peptide sequence is selected
from aa 1236-1248 of HUMAN Erbb2**Format**Peptides are lyophilized in a solid powder
format. Peptides can be reconstituted in
solution using the appropriate buffer as
needed.**Storage**Maintain refrigerated at 2-8°C for up to 6
months. For long term storage store at
-20°C.**Precautions**This product is for research use only. Not
for use in diagnostic or therapeutic
procedures.**Mouse Erbb2 Blocking Peptide (P1236) - Protein Information****Name** Erbb2**Synonyms** Kiaa3023, Neu**Function**Protein tyrosine kinase that is part of
several cell surface receptor complexes, but**Mouse Erbb2 Blocking Peptide (P1236) - 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 (By similarity).

Mouse Erbb2 Blocking Peptide (P1236) - References

Okazaki N.,et al.DNA Res. 10:167-180(2003).
Lim J.,et al.Endocrinology
138:1328-1337(1997).
Moscoso L.M.,et al.Dev. Biol.
172:158-169(1995).
Muthuswamy S.K.,et al.Oncogene
11:271-279(1995).
Jaulin-Bastard F.,et al.J. Biol. Chem.
276:15256-15263(2001).

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 (By similarity).

Cellular Location

Cell membrane

{ECO:0000250|UniProtKB:P04626};

Single-pass type I membrane protein

{ECO:0000250|UniProtKB:P04626} Early endosome

{ECO:0000250|UniProtKB:P04626}.

Cytoplasm, perinuclear region

{ECO:0000250|UniProtKB:P04626}. Nucleus

{ECO:0000250|UniProtKB:P04626}.

Note=Translocation to the nucleus requires endocytosis, probably endosomal sorting and is mediated by importin beta-1/KPNB1.

Also detected in endosome-to-TGN retrograde vesicles.

{ECO:0000250|UniProtKB:P04626}

Tissue Location

Expressed predominantly in uterine epithelial cells. In the muscle, expression localizes to the synaptic sites of muscle fibers

Mouse Erbb2 Blocking Peptide (P1236) - Protocols

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

- [Blocking Peptides](#)