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Mouse Erbb2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14954c

Specification

Mouse Erbb2 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P70424
Other Accession	NP_001003817.1
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**138579**
Antigen Region	**531-559**

Mouse Erbb2 Antibody (Center) - 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
This Mouse Erbb2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 531-559 amino acids from the Central region of mouse Erbb2.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Mouse Erbb2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Erbb2 Antibody (Center) - Protein Information

Name Erbb2

Synonyms Kiaa3023, Neu

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 (By similarity).

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P04626}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P04626} Cell projection, ruffle 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. Internalized from the cell membrane in response to EGF stimulation. {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 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Erbb2 Antibody (Center) - Images

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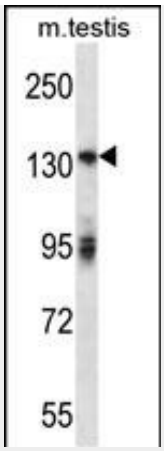

Mouse Erbb2 Antibody (Center) (Cat. #AP14954c) western blot analysis in mouse testis tissue lysates (35ug/lane).This demonstrates the Erbb2 antibody detected the Erbb2 protein (arrow).

Mouse Erbb2 Antibody (Center) - Background

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).

Mouse Erbb2 Antibody (Center) - References

Cabodi, S., et al. FASEB J. 24(10):3796-3808(2010)
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Huck, L., et al. Proc. Natl. Acad. Sci. U.S.A. 107(35):15559-15564(2010)
Chuang, T.D., et al. J. Biol. Chem. 285(31):23598-23606(2010)
Simeone, L., et al. J. Neurosci. 30(19):6620-6634(2010)