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EphB6 Antibody (C-term H990)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7627b

Specification

EphB6 Antibody (C-term H990) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	O15197
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**990-1021**

EphB6 Antibody (C-term H990) - Additional Information

Gene ID 2051

Other Names
Ephrin type-B receptor 6, HEP, Tyrosine-protein kinase-defective receptor EPH-6, EPHB6

Target/Specificity
This EphB6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 990-1021 amino acids from the C-terminal region of human EphB6.

Dilution
WB~~1:1000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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
EphB6 Antibody (C-term H990) is for research use only and not for use in diagnostic or therapeutic procedures.

EphB6 Antibody (C-term H990) - Protein Information

Name EPHB6

Function Kinase-defective receptor for members of the ephrin-B family. Binds to ephrin-B1 and ephrin-B2. Modulates cell adhesion and migration by exerting both positive and negative effects upon stimulation with ephrin-B2. Inhibits JNK activation, T-cell receptor-induced IL-2 secretion and

CD25 expression upon stimulation with ephrin-B2.

Cellular Location
Membrane; Single-pass type I membrane protein.

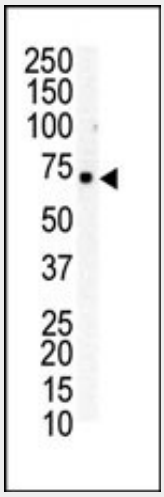
Tissue Location
Expressed in brain. Expressed in non invasive breast carcinoma cell lines (at protein level). Strong expression in brain and pancreas, and weak expression in other tissues, such as heart, placenta, lung, liver, skeletal muscle and kidney. Expressed in breast non invasive tumors but not in metastatic lesions. Isoform 3 is expressed in cell lines of glioblastomas, anaplastic astrocytomas, gliosarcomas and astrocytomas. Isoform 3 is not detected in normal tissues.

EphB6 Antibody (C-term H990) - Protocols

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

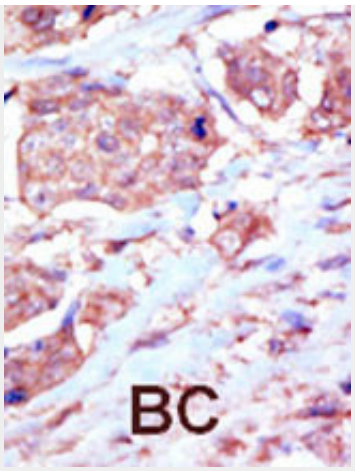
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

EphB6 Antibody (C-term H990) - Images



Western blot analysis of anti-EphB6 C-term Pab (Cat. #AP7627b) in Jurkat cell lysate. EphB6 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

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Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

EphB6 Antibody (C-term H990) - Background

Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. EphB6 lacks the kinase activity of most receptor tyrosine kinases and binds to ephrin-B ligands.

EphB6 Antibody (C-term H990) - References

Freywald, A., et al., J. Biol. Chem. 278(12):10150-10156 (2003). Luo, H., et al., J. Clin. Invest. 110(8):1141-1150 (2002). Wilkinson, D.G., Nat Rev Neurosci 2(3):155-164 (2001). Luo, H., et al., J. Immunol. 167(3):1362-1370 (2001). Tang, X.X., et al., Proc. Natl. Acad. Sci. U.S.A. 97(20):10936-10941 (2000).

EphB6 Antibody (C-term H990) - Citations

- Expression of EphB6 in ovarian serous carcinoma is associated with grade, TNM stage and survival.
- Eph/ephrin profiling in human breast cancer reveals significant associations between expression level and clinical outcome.
- The EPHB6 receptor tyrosine kinase is a metastasis suppressor that is frequently silenced by promoter DNA hypermethylation in non-small cell lung cancer.