10320 Camino Santa Fe, Suite G
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EhpB6 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1153a

Specification

EhpB6 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	O15197
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**

Description
EhpB6: EPH receptor B6. 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. The ephrin receptor encoded by this gene lacks the kinase activity of most receptor tyrosine kinases and binds to ephrin-B ligands.

Immunogen
Purified recombinant fragment of EphB6 (aa601-750) expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

EhpB6 Antibody - Additional Information

Gene ID 2051

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

Dilution
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
EhpB6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

EhpB6 Antibody - Protein Information

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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.

EhpB6 Antibody - 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

EhpB6 Antibody - Images

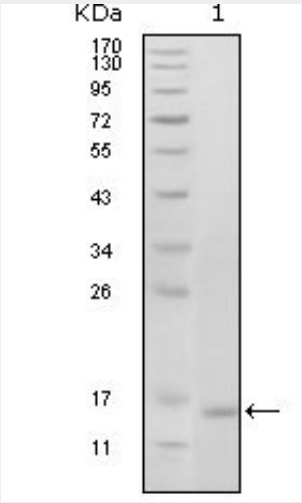


Figure 1: Western blot analysis using EhpB6 mouse mAb against truncated EhpB6 recombinant protein (1).

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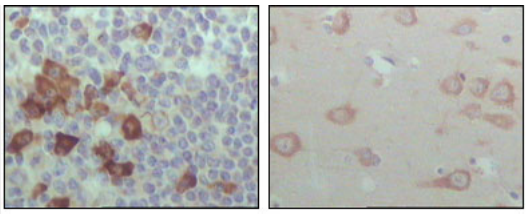


Figure 2: Immunohistochemical analysis of paraffin-embedded human lymph node (left) and brain (right), showing cytoplasmic localization with DAB staining using EhpB6 mouse mAb.

EhpB6 Antibody - References

1. J Clin Invest. 2002 Oct;110(8):1141-50. 2. J Biol Chem. 2002 Feb 8;277(6):3823-8. Epub 2001 Nov 16. 3. J Biol Chem. 2003 Mar 21;278(12):10150-6. Epub 2003 Jan 6. 4. Biochem Biophys Res Commun. 2006 Feb 3;340(1):268-76.