10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EhpB6 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1153a

Product Information

Application	WB, IHC, E
Primary Accession	O15197
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2A6B9
Isotype	IgG1
Calculated MW	110700
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.

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 E~~N/A
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.

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 (PubMed:12517763, PubMed:15955811). Can recruit SH2 domain-containing signaling adapters following phosphorylation by EPHB4 (PubMed:34431498).
Cellular Location	Cell 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.

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.

Images

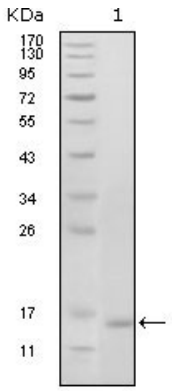


Figure 1: Western blot analysis using EhpB6 mouse mAb against truncated EhpB6 recombinant protein (1).

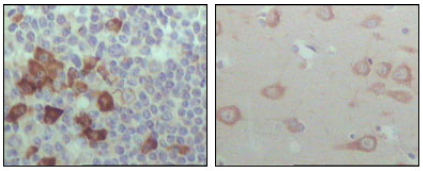


Figure 2: Immunohistochemical analysis of paraffin-embedded human lymph node (left) and brain (right), showing cytoplasmic localization with DAB staining using EhpB6 mouse mAb.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.