

Anti-Eph Receptor B3 Antibody

Catalog # ABO10884

Product Information

Application	WB, IHC-P
Primary Accession	P54753
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Ephrin type-B receptor 3(EPHB3) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	2049
Other Names	Ephrin type-B receptor 3, 2.7.10.1, EPH-like tyrosine kinase 2, EPH-like kinase 2, Embryonic kinase 2, EK2, hEK2, Tyrosine-protein kinase TYRO6, EPHB3, ETK2, HEK2, TYRO6
Calculated MW	110330
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse
Subcellular Localization	Cell membrane ; Single-pass type I membrane protein . Cell projection, dendrite .
Tissue Specificity	Ubiquitous.
Source	Eukaryota
Protein Name	Ephrin type-B receptor 3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Eph receptor B3(982-998aa SIQDMRLQMNQTLPVQV), identical to the related rat and mouse sequences.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily.

Protein Information

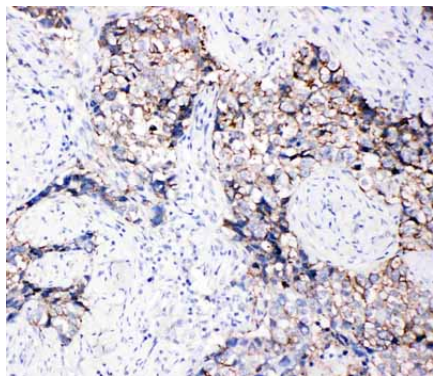
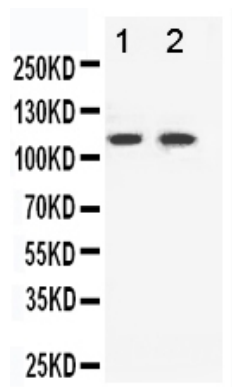
Name	EPHB3
Synonyms	ETK2, HEK2, TYRO6
Function	Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Generally has an overlapping and redundant function with EPHB2. Like EPHB2, functions in axon guidance during development regulating for instance the neurons forming the corpus callosum and the anterior commissure, 2 major interhemispheric connections between the temporal lobes of the cerebral cortex. In addition to its role in axon guidance also plays an important redundant role with other ephrin-B receptors in development and maturation of dendritic spines and the formation of excitatory synapses. Controls other aspects of development through regulation of cell migration and positioning. This includes angiogenesis, palate development and thymic epithelium development for instance. Forward and reverse signaling through the EFNB2/EPHB3 complex also regulate migration and adhesion of cells that tubularize the urethra and septate the cloaca. Finally, plays an important role in intestinal epithelium differentiation segregating progenitor from differentiated cells in the crypt.
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cell projection, dendrite
Tissue Location	Ubiquitous.

Background

Ephrin Receptor EphB3, is also known as human embryo kinase2(HEK2) or Eph-like tyrosine kinase2(ETK2). HEK2, which is a member of the EPH/ELK family of tyrosine kinases, encodes a 998-amino acid polypeptide having a single putative transmembrane domain, a secretory signal sequence, and 2 fibronectin repeats. The EPHB3 gene is mapped to human chromosome 3q21-qter. HEK2 interacts with 2 ligands of EPH-related kinases(LERKs), namely, LERK2(EFNB1) and LERK5(EFNB2). Coincubation of HEK2- and LERK2-expressing cells induces cell-cell adhesion and aggregation. Additionally, coexpression of HEK2 and LERK2 results in reduced kinase activity of HEK2.

Images

Anti-Eph receptor B3 antibody, ABO10884, Western blotting
Lane 1: HELA Cell Lysate
Lane 2: A549 Cell Lysate



Anti-Eph receptor B3 antibody, ABO10884, IHC(P)IHC(P):
Human Lung Cancer Tissue

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