EphB3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EphB3, Polyclonal Antibody
Full Product Name	EphB3 Polyclonal Antibody
Product Gene Name	anti-EphB3 antibody
Product Synonym Names	Ephrin type-B receptor 3; EC 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
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	110,330 Da
OMIM	601839
3D Structure	ModBase 3D Structure for P54753
Immunogen	Synthetic peptide from human protein at AA range: 650-700
Storage Buffer	PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-EphB3 antibody	Immunohistochemistry (IHC) Paraffin, ELISA (EIA)
Application Notes for anti-EphB3 antibody	IHC-p: 1:50-200 ELISA: 1:10000-20000
Related Product Information for anti-EphB3 antibody	MBS8532595 is an antibody targeting EphB3. Also known as EphB3 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-EphB3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EphB3. It may not necessarily be applicable to this product.

NCBI GI #	17975768
NCBI GeneID	2049
NCBI Accession #	NP_004434.2
UniProt Primary Accession #	P54753
UniProt Secondary Accession #	Q7Z740
UniProt Related Accession #	P54753

GenBank Nucleotide #	NM_004443.3
NCBI Official Full Name	ephrin type-B receptor 3
NCBI Official Synonym Full Names	EPH receptor B3
NCBI Official Symbol	EPHB3
NCBI Official Synonym Symbols	EK2; ETK2; HEK2; TYRO6
UniProt Protein Name	Ephrin type-B receptor 3
UniProt Synonym Protein Names	EPH-like tyrosine kinase 2; EPH-like kinase 2; Embryonic kinase 2; EK2; hEK2; Tyrosine-protein kinase TYRO6
Protein Family	Ephrin type-B receptor
UniProt Gene Name	EPHB3
UniProt Synonym Gene Names	ETK2; HEK2; TYRO6; EPH-like kinase 2; EK2; hEK2
NCBI Protein Information	ephrin type-B receptor 3
NCBI Summary for EphB3	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 two 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. This gene encodes a receptor for ephrin-B family members. [provided by RefSeq, Mar 2010]
UniProt Comments for EphB3	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 plays also 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.
Research Articles on EphB3	**1.** Study found up-regulated expression of ephrinB3/EphB3 in intractable temporal lobe epilepsy patients and experimental temporal lobe epilepsy rats, which suggested that ephrinB3/EphB3 might be involved in the pathogenesis of temporal lobe epilepsy
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