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Anti-EPHB3 Antibody
Rabbit polyclonal antibody to EPHB3
Catalog # AP61131

Specification

Anti-EPHB3 Antibody - Product Information

Application	**WB**
Primary Accession	P54753
Reactivity	**Human, Rat, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**110330**

Anti-EPHB3 Antibody - Additional Information

Gene ID 2049

Other Names
ETK2; HEK2; TYRO6; Ephrin type-B receptor 3; EPH-like tyrosine kinase 2; EPH-like kinase 2; Embryonic kinase 2; EK2; hEK2; Tyrosine-protein kinase TYRO6

Target/Specificity
KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human EPHB3. The exact sequence is proprietary.

Dilution
WB~~WB (1/500 - 1/1000)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-EPHB3 Antibody - 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

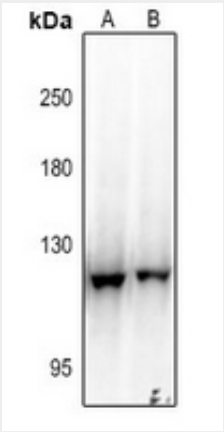
Tissue Location
Ubiquitous.

Anti-EPHB3 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

Anti-EPHB3 Antibody - Images



Western blot analysis of EPHB3 expression in C6 (A), Hela (B) whole cell lysates.

Anti-EPHB3 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human EPHB3. The exact sequence is proprietary.