

**EphB3 Polyclonal Antibody**  
Catalog # AP74202**Specification**

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**EphB3 Polyclonal Antibody - Product Information**

Application	IHC
Primary Accession	<a href="#">P54753</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**EphB3 Polyclonal Antibody - Additional Information****Gene ID** 2049**Other 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)

**Dilution**

IHC~~IHC-p 1:50-200, ELISA 1:10000-20000

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**EphB3 Polyclonal 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

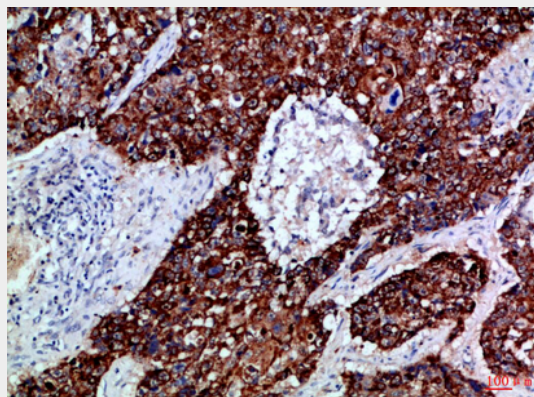
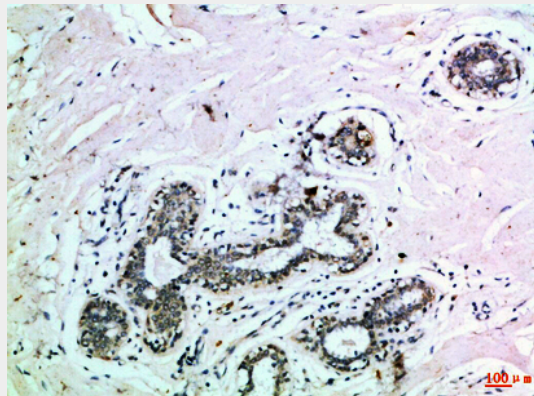
**Tissue Location**

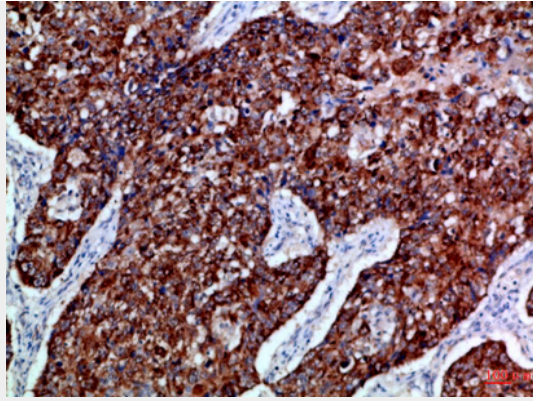
Ubiquitous.

**EphB3 Polyclonal 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 Cytometry](#)
- [Cell Culture](#)

**EphB3 Polyclonal Antibody - Images**



### **EphB3 Polyclonal Antibody - Background**

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