

**Anti-EphB2 Reference Antibody (Genentech patent anti-EphB2)  
Recombinant Antibody  
Catalog # APR10889**

**Specification**

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**Anti-EphB2 Reference Antibody (Genentech patent anti-EphB2) - Product Information**

Application	FC, E, FTA
Primary Accession	<a href="#">P29323</a>
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	150 KDa

**Anti-EphB2 Reference Antibody (Genentech patent anti-EphB2) - Additional Information**

**Target/Specificity**  
EphB2

**Endotoxin**  
< 0.001EU/ µg,determined by LAL method.

**Conjugation**  
Unconjugated

**Expression system**  
CHO Cell

**Format**  
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

**Anti-EphB2 Reference Antibody (Genentech patent anti-EphB2) - Protein Information**

**Name** EPHB2

**Synonyms** DRT, EPHT3, EPTH3, ERK, HEK5, TYRO5

**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. Functions in axon guidance during development. Involved in the guidance of commissural axons, that form a major interhemispheric connection between the 2 temporal lobes of the cerebral cortex. Also involved in guidance of contralateral inner ear efferent growth cones at the midline and of retinal ganglion cell axons to the optic disk. In addition to axon guidance, also regulates dendritic spines development and maturation and stimulates the formation of excitatory synapses. Upon activation by EFN1, abolishes the ARHGEF15-mediated negative regulation on excitatory

synapse formation. Controls other aspects of development including angiogenesis, palate development and in inner ear development through regulation of endolymph production. Forward and reverse signaling through the EFNB2/EPHB2 complex regulate movement and adhesion of cells that tubularize the urethra and septate the cloaca. May function as a tumor suppressor. May be involved in the regulation of platelet activation and blood coagulation (PubMed:<a href="http://www.uniprot.org/citations/30213874" target="\_blank">30213874</a>).

#### Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell projection, axon. Cell projection, dendrite

#### Tissue Location

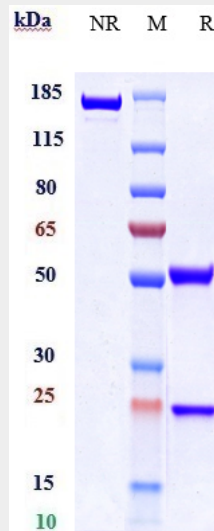
Brain, heart, lung, kidney, placenta, pancreas, liver and skeletal muscle. Preferentially expressed in fetal brain

### Anti-EphB2 Reference Antibody (Genentech patent anti-EphB2) - Protocols

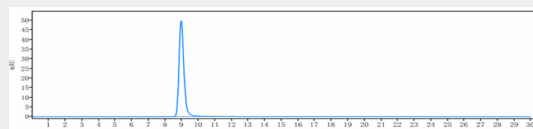
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-EphB2 Reference Antibody (Genentech patent anti-EphB2) - Images



Anti-EphB2 Reference Antibody (Genentech patent anti-EphB2) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%



The purity of Anti-EphB2 Reference Antibody (Genentech patent anti-EphB2) is more than 95% ,determined by SEC-HPLC.