EPHB2 Antibody

Catalog No: #33741

Package Size: #33741-1 50ul #33741-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

EPHB2 Antibody
Rabbit
Polyclonal
The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific
immunogen.
WB
Hu
The antibody detects endogenous levels of total EPHB2 protein.
Peptide
Synthesized peptide derived from C-terminal of human EPHB2.
EPHB2
CEK5; DRT; EC 2.7.10.1; EPH-3; EPHB2
Swiss-Prot: P29323NCBI Gene ID: 2048
P29323
2048;
117kd
1.0mg/ml
Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide
and 50% glycerol.
Store at -20°C

Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of extracts from Jurkat cells, using EPHB2 antibody #33741.

Background

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. Beside axon guidance, also regulates dendritic spines development and maturation and stimulates the formation of excitatory synapses. Upon activation by EFNB1, 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. Kiyokawa E., Cancer Res. 54:3645-3650(1994).

Ikegaki N., Hum. Mol. Genet. 4:2033-2045(1995).

Tang X.X., Oncogene 17:521-526(1998).

Note: This product is for in vitro research use only