



EPHB1/EPHB2/EPHB3/EPHB4 (Ab-600/602/614/596) Antibody

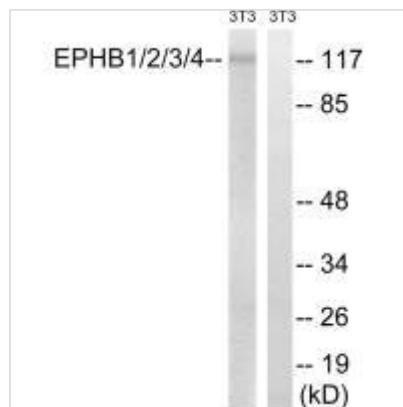
Product Code	CSB-PA249052
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P54762
Immunogen	Synthesized non-phosphopeptide derived from Human EPHB1/2/3/4 around the phosphorylation site of tyrosine 600/602/614/596 (F-T-Y(p)-E-D).
Raised In	Rabbit
Species Reactivity	Human, Mouse
Specificity	The antibody detects endogenous levels of total EPHB1/2/3/4 protein.
Tested Applications	ELISA, WB; WB: 1:500-1:3000
Relevance	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. Cognate/functional ephrin ligands for this receptor include EFNB1, EFNB2 and EFNB3. During nervous system development, regulates retinal axon guidance redirecting ipsilaterally ventrotemporal retinal ganglion cells axons at the optic chiasm midline. This probably requires repulsive interaction with EFNB2. In the adult nervous system together with EFNB3, regulates chemotaxis, proliferation and polarity of the hippocampus neural progenitors. Beside its role in axon guidance plays also an important redundant role with other ephrin-B receptors in development and maturation of dendritic spines and synapse formation. May also regulate angiogenesis. More generally, may play a role in targeted cell migration and adhesion. Upon activation by EFNB1 and probably other ephrin-B ligands activates the MAPK/ERK and the JNK signaling cascades to regulate cell migration and adhesion respectively. Tang X.X., Genomics 29:426-437(1995). Stein E., Submitted (DEC-1997) to the EMBL/GenBank/DDBJ databases. Zhang Z., Protein Sci. 13:2819-2824(2004).
Form	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Alias	EC 2.7.10.1; ELK; EPB1; Eph receptor B1; Ephrin type-B receptor 1 precursor
Product Type	Polyclonal Antibody


Species

Homo sapiens (Human)

Target Names

EPHB1/EPHB2/EPHB3/EPHB4

Image


Western blot analysis of extracts from 3T3 cells, treated with heat shock, using EPHB1/2/3/4 (Ab-600/602/614/596) antibody.