

Datasheet for ABIN7180166
anti-EPH Receptor B1 antibody (C-Term)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µL
Target:	EPH Receptor B1 (EPHB1)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EPH Receptor B1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Synthesized peptide derived from C-terminal of Human EPHB1.
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	EPH Receptor B1 (EPHB1)
Alternative Name:	EPHB1 (EPHB1 Products)
Background:	Background: Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B

Target Details

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.

Ota T., Nat. Genet. 36:40-45(2004).

Aliases: Cek 6 antibody, EK6 antibody, ELK antibody, Elkh antibody, EPH receptor B1 antibody, Eph tyrosine kinase 2 antibody, EPH-like kinase 6 antibody, Ephb1 antibody, EPHB1_HUMAN antibody, Ephrin type B receptor 1 antibody, Ephrin type-B receptor 1 antibody, EPHT2 antibody, HEK 6 antibody, HEK6 antibody, NET antibody, Neuronally-expressed EPH-related tyrosine kinase antibody, soluble EPHB1 variant 1 antibody, Tyrosine protein kinase receptor EPH 2 antibody, Tyrosine-protein kinase receptor EPH-2 antibody

UniProt: [P54762](#)

Pathways: [RTK Signaling](#)

Application Details

Application Notes: WB:1:500-1:3000,

Restrictions: For Research Use only

Handling

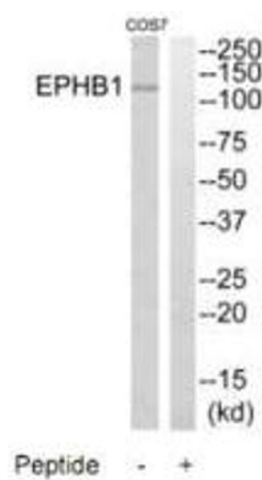
Format: Liquid

Buffer: Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl,

Handling

	0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Western Blotting

Image 1. Western blot analysis of extracts from COS7 cells, using EPHB1 antibody.