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Datasheet for ABIN7151859

anti-EPH Receptor B1 antibody (AA 260-500)

1 Image

Overview

Quantity:	100 µL
Target:	EPH Receptor B1 (EPHB1)
Binding Specificity:	AA 260-500
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EPH Receptor B1 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Ephrin type-B receptor 1 protein (260-500AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	EPH Receptor B1 (EPHB1)
Alternative Name:	EPHB1 (EPHB1 Products)
Background:	Background: Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling

Target Details

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. In addition to 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.

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: Recommended dilution: IHC:1:20-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.

Preservative: Sodium azide

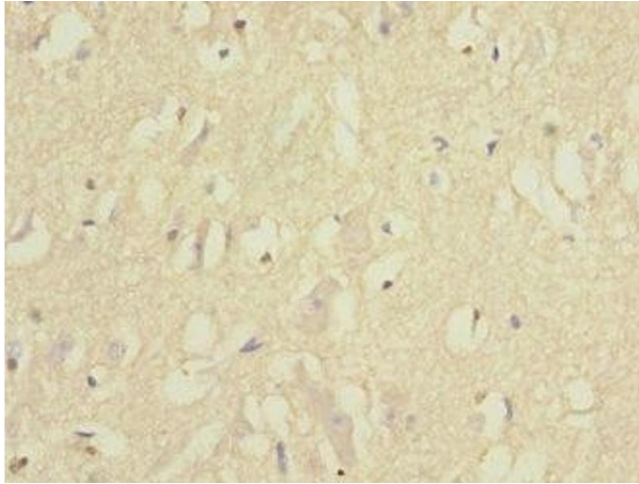
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human brain tissue using ABIN7151859 at dilution of 1:100