Datasheet for ABIN7151840

anti-EPH Receptor A4 antibody (AA 345-545) (Biotin)

Go to Product page

Overview

Quantity:	100 µg
Target:	EPH Receptor A4 (EPHA4)
Binding Specificity:	AA 345-545
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EPH Receptor A4 antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Ephrin type-A receptor 4 protein (345-545AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	EPH Receptor A4 (EPHA4)
Alternative Name:	EPHA4 (EPHA4 Products)
Background:	Background: Receptor tyrosine kinase which binds membrane-bound ephrin family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring

Target Details

	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. Highly promiscuous, it has the unique property among Eph receptors to bind and to be physiologically activated by both GPI-anchored ephrin-A and transmembrane ephrin-B ligands including EFNA1 and EFNB3. Upon activation by ephrin ligands, modulates cell morphology and integrin-dependent cell adhesion through regulation of the Rac, Rap and Rho GTPases activity. Plays an important role in the development of the nervous system controlling different steps of axonal guidance including the establishment of the corticospinal projections. May also control the segregation of motor and sensory axons during neuromuscular circuit development. In addition to its role in axonal guidance plays a role in synaptic plasticity. Activated by EFNA1 phosphorylates CDK5 at \'Tyr-15\' which in turn phosphorylates NGEF regulating RHOA and dendritic spine morphogenesis. In the nervous system, plays also a role in repair after injury preventing axonal regeneration and in angiogenesis playing a role in central nervous system vascular formation. Additionally, its promiscuity makes it available to participate in a variety of cell-cell signaling regulating for instance the development of the thymic epithelium. Aliases: Cek 8 antibody, CEK8 antibody, EK8 antibody, eph receptor a4 antibody, EPH-like kinase 8 antibody, EPHA4 antibody, EPHA4_HUMAN antibody, Ephrin type-A receptor 4 antibody, HEK 8 antibody, hEK8 antibody, Receptor protein-tyrosine kinase HEK8 antibody, Sek 1 antibody, SEK antibody, TYRO 1 protein tyrosine kinase antibody, TYRO1 antibody, Tyrosine-protein kinase receptor SEK antibody, Tyrosine-protein kinase TYRO1 antibody
UniProt:	P54764
Pathways:	RTK Signaling

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be

Handling

	handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.