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Datasheet for ABIN2746581 EPH Receptor A8 Protein (EPHA8)



Overview

Quantity:	5 applications
Target:	EPH Receptor A8 (EPHA8)
Origin:	Human, Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	Western Blotting (WB), Positive Control (PC)
Product Details	
Purpose:	Purified Protein in ready-to-use SDS sample buffer.
Characteristics:	EphA R8 selective antibodies were generated against a peptide taken from the human protein. The EphA R8-selective antibodies are affinity purified on an immobilized antigen based affinity matrix, the isolated antibodies were then stabilized in antibody stabilization buffer for long-term storage. The EphA R8-selective antibodies are fully characterized for applications in western blotting and ELISA at the recommended dilutions. antibodies-online.com provides EphA8 Western blot positive control samples in SDS-PAGE sample buffer.
Purification:	Purified Protein
Target Details	
Target:	EPH Receptor A8 (EPHA8)
Alternative Name:	Eprhin Receptor A8 (EPHA8 Products)
Background:	The Ephrin receptors represent the largest group of Receptor Tyrosine Kinases, comprising of

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14 members and divided in two subclasses (class A & B ephrin ligands) based on their abilities
to bind and activate each other, and on sequence conservation. Ephrin-A (EFNA) class is
anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB)
classes are trans-membrane proteins. Ephrins interact with a variety of membrane receptors
that respond to chemokines, neurotransmitters or growth factors. Eph receptors are involved in
central nervous system function and development, and in the modulation of different types of
nociception. Eph receptors and their ligands play important roles in the regulation of cancer cell
migration and invasion and are key regulators of axon guidance. They function in a variety of
signaling modes by transducing signals from the cell exterior to the interior through ligand-
induced activation of their kinase domain. Ephrin type-A receptor 8 is a protein that in humans
is encoded by the EphA R8 gene. EphA8/Eek receptors play a role in axonal path-finding during
development of the mammalian nervous system. Ligand-mediated activation of the EphA8
receptor regulates cell adhesion and migration. The tyrosine kinase domain of EphA R8 is
important for inducing neurite outgrowth in the absence of ligand stimulation. This receptor is
capable of inducing a sustained increase in MAPK (mitogen-activated protein kinase) activity by
relocalizing from the cytoplasm to the nucleus in response to EphA R8 transfection, thus
promoting neurite outgrowth in neuronal cells. Two major auto phosphorylation sites in EphA
r8, Tyr-615 and Tyr-838, are demonstrated by two-dimensional phosphopeptide mapping
analysis. Cell attachment responses are attenuated by overexpression of wild type EphA R8
receptor but to less extent by EphA R8 mutants lacking phosphorylation at either Tyr-615 or
Tyr-838. The gene for EphA R8 is present on chromosome 1p36.1

Molecular Weight:	120 kDa
NCBI Accession:	NP_065387
UniProt:	P29322
Pathways:	RTK Signaling

Application Details

Application Notes:	Antibodies were tested in ELISA and western blotting applications at 1:500 dilution using
	ABIN1686536 samples. Antibody dilutions for these antibodies are for reference only,
	investigators are expected to determine the optimal conditions. Application of this antibody in
	other protocols has not yet tested.
	WB: > 1:500
	IMM & IP pull-down assays: n.d.
	IHC: n.d.

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Application Details	
	Investigators using this antibody in protocols other than listed above can request a complimentary sample of this antibody. n.d. not necessarily means the antibody is not suitable for that application, it simply means we have not yet characterized the antibody for that application.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	For 5 applications, volume varies from 100-200 μL in reduced SDS-PAGE sample buffer.
Storage:	-20 °C
Storage Comment:	-20 °C for long term storage