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Datasheet for ABIN7318432
EPH Receptor A2 Protein (EPHA2) (Fc Tag)

Overview

Quantity:	50 µg
Target:	EPH Receptor A2 (EPHA2)
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This EPH Receptor A2 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human EphA2 Protein (Fc Tag)(Active)
Sequence:	Ala24-Asn534
Characteristics:	Recombinant Human Ephrin A Receptor 2 is produced by our Mammalian expression system and the target gene encoding Ala24-Asn534 is expressed with a Fc tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Human Ephrin-A1-His(Cat: PKSH032388) at 1.5µg/ml(100 µl/well) can bind Human EphA2-Fc. The ED50 of Human EphA2-Fc is 12.43 ug/ml.

Target Details

Target:	EPH Receptor A2 (EPHA2)
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Target Details

Alternative Name: EphA2 ([EPHA2 Products](#))

Background: Ephrin type-A receptor 2/EphA2 is a member of the Eph receptor tyrosine kinase family which binds Ephrins A1, 2, 3, 4, and 5. A and B class Eph proteins have a common structural organization. Receptor tyrosine kinase which binds promiscuously membrane-bound ephrin-A 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. EphA2 becomes autophosphorylated following ligand binding and then interacts with SH2 domain-containing PI3-kinase to activate MAPK pathways. Reverse signaling is also propagated through the Ephrin ligand. Transcription of EphA2 is dependent on the expression of E-Cadherin, and can be induced by p53 family transcription factors. EphA2 is upregulated in breast, prostate, and colon cancer vascular endothelium. Its ligand, EphrinA1, is expressed by the local tumor cells. In some cases, EphA2 and EphrinA1 are expressed on the same blood vessels. EphA2 signaling cooperates with VEGF receptor signaling in promoting endothelial cell migration.

Synonym: Ephrin type-A receptor 2, Epithelial cell kinase, Tyrosine-protein kinase receptor ECK, EPHA2,ARCC2,CTPA,CTPP1,CTRCT6,ECK

Molecular Weight: 83.0 kDa

UniProt: [P29317](#)

Pathways: [RTK Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.