EPHA1 ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	EPHA1, ELISA Kit
Full Product Name	EPHA1 Colorimetric Cell-Based ELISA Kit
Product Gene Name	EPHA1 elisa kit
Product Synonym Names	EPA1; EPH; EPHT; EPHT1; Tyrosine-protein kinase receptor EPH
Species Reactivity	Human
Assay Type	Non-Phospho Cell-Based ELISA
Samples	Researchers plate their cell line of choice
Sensitivity	>=5000 cells/well
Form/Format	One 96-Well Plate
Preparation and Storage	Store at 4 degree C.
Molecular Weight	108067
OMIM	M18391 mRNA
3D Structure	ModBase 3D Structure for P21709
Detection Method	Colorimetric 450 nm
Product Categories/Family for EPHA1 elisa kit	Cell Based ELISA Kit
Related Product Information for EPHA1 elisa kit	MBS9500199 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the EPHA1, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing EPHA1. The ELISA analytical biochemical technique of the MBS9500199 kit is based on EPHA1 antibody-EPHA1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect EPHA1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, EPHA1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of EPHA1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EPHA1. It may not necessarily be applicable to this product.

NCBI GI #	221316650
NCBI GeneID	2041
NCBI Accession #	NP_005223.4
UniProt Primary Accession #	P21709
UniProt Secondary Accession #	Q15405; A1L3V3; B5A966; B5A967
UniProt Related Accession #	P21709

GenBank Nucleotide #	NM_005232.4
NCBI Official Full Name	ephrin type-A receptor 1
NCBI Official Synonym Full Names	EPH receptor A1
NCBI Official Symbol	EPHA1
NCBI Official Synonym Symbols	EPH; EPHT; EPHT1
UniProt Protein Name	Ephrin type-A receptor 1
UniProt Synonym Protein Names	EPH tyrosine kinase; EPH tyrosine kinase 1; Erythropoietin-producing hepatoma receptor; Tyrosine-protein kinase receptor EPH
Protein Family	Ephrin type-A receptor
UniProt Gene Name	EPHA1
UniProt Synonym Gene Names	EPH; EPHT; EPHT1; hEpha1
NCBI Protein Information	ephrin type-A receptor 1
NCBI Summary for EPHA1	This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in the nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. This gene is expressed in some human cancer cell lines and has been implicated in carcinogenesis. [provided by RefSeq, Jul 2008]
UniProt Comments for EPHA1	EphA1: a receptor tyrosine kinase. Receptor for members of the ephrin-A family. Binds with a low affinity to ephrin-A1. The Eph receptor tyrosine kinase family, the largest in the tyrosine kinase group, has fourteen members. They bind membrane-anchored ligands, ephrins, at sites of cell-cell contact, regulating the repulsion and adhesion of cells that underlie the establishment, maintenance, and remodeling of patterns of cellular organization. Eph signals are particularly important in regulating cell adhesion and cell migration during development, axon guidance, homeostasis and disease. EphA receptors bind to GPI-anchored ephrin-A ligands, while EphB receptors bind to ephrin-B proteins that have a transmembrane and cytoplasmic domain. Interactions between EphB receptor kinases and ephrin-B proteins transduce signals bidirectionally, signaling to both interacting cell types. Eph receptors and ephrins also regulate the adhesion of endothelial cells and are required for the remodeling of blood vessels. Misexpressed in several cancers, including upregulation in head and neck cancer, and downregulation in invasive breast cancer cell lines and glioblastoma Protein type: EC 2.7.10.1; Eph family; Kinase, protein; Membrane protein, integral; Protein kinase, TK; Protein kinase, tyrosine (receptor); TK group Chromosomal Location of Human Ortholog: 7q34-q35 Cellular Component: integral component of plasma membrane; plasma membrane Molecular Function: ATP binding; protein kinase activity; protein kinase binding; transmembrane-ephrin receptor activity Biological Process: angiogenesis; cell surface receptor signaling pathway; ephrin receptor signaling pathway; negative regulation of cell migration; negative regulation of protein kinase activity; peptidyl-tyrosine phosphorylation; positive regulation of angiogenesis; positive regulation of cell migration; positive regulation of cell proliferation; positive regulation of cell-matrix adhesion; positive regulation of stress fiber formation; protein autophosphorylation; regulation of GTPase activity; somatic stem cell maintenance
Research Articles on EPHA1	**1.** Results show that EPHA1 expression is up-regulated in ovarian cancer (OC) cells and provide evidence that it may promote the aggression of some OC cells.
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