

## ARG82388 Human EphA1 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82388-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82388-002	Standard	2 X 10 ng/vial	4°C
ARG82388-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82388-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82388-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82388-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82388-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82388-008	25X Wash buffer	20 ml	4°C
ARG82388-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82388-010	STOP solution	10 ml (Ready to use)	4°C
ARG82388-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82388 Human EphA1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human EphA1 in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	EphA1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.8% Inter-Assay CV: 6.5%

**Alternate Names** EPH tyrosine kinase; EPH tyrosine kinase 1; Tyrosine-protein kinase receptor EPH; EPHT; Ephrin type-A receptor 1; hEpha1; EPH; Erythropoietin-producing hepatoma receptor; EC 2.7.10.1; EPHT1

## Application Instructions

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**Assay Time** ~ 5 hours

## Properties

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**Form** 96 well

**Storage instruction** Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

**Note** For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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**Gene Symbol** EPHA1

**Gene Full Name** EPH receptor A1

**Background** 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]

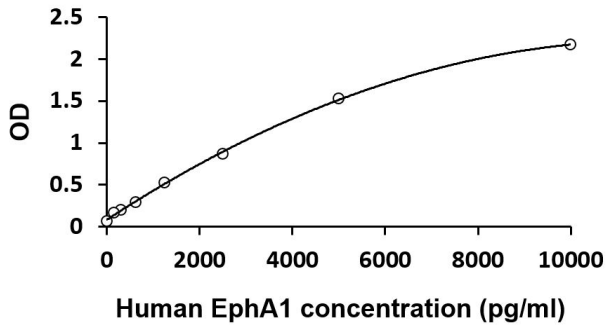
**Function** Receptor tyrosine kinase which binds promiscuously membrane-bound ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Binds with a low affinity EFNA3 and EFNA4 and with a high affinity to EFNA1 which most probably constitutes its cognate/functional ligand. Upon activation by EFNA1 induces cell attachment to the extracellular matrix inhibiting cell spreading and motility through regulation of ILK and downstream RHOA and RAC. Plays also a role in angiogenesis and regulates cell proliferation. May play a role in apoptosis. [UniProt]

**Highlight** Related products:  
[EphA antibodies](#); [EphA ELISA Kits](#);  
New ELISA data calculation tool:  
[Simplify the ELISA analysis by GainData](#)

**PTM** Phosphorylated. Autophosphorylation is stimulated by its ligand EFNA1.

Ubiquitinated. [UniProt]

**Cellular Localization** Cell membrane; Single-pass type I membrane protein. [UniProt]



ARG82388 Human EphA1 ELISA Kit standard curve image

ARG82388 Human EphA1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.