# ARG82593
# Human Ephrin A1 ELISA Kit

Package: 96 wells
Store at: 4°C

## Summary

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| Product Description | ARG82593 Human Ephrin A1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Ephrin A1 in serum, plasma and cell culture supernatants. |
| Tested Reactivity | Hu |
| Tested Application | ELISA |
| Specificity | This kit could assay both natural and recombinant Human Ephrin A1.<br><br>No significant cross-reactivity or interference was observed in the following samples:<br>Human: Ephrin A3, Ephrin A4, Ephrin A5, Ephrin B1, Ephrin B2, GM-CSF, IFN gamma, IL1, IL2, IL4, IL6, IL8, IL10, IL33, MIP1 beta, PDGF SCF, TIMP1, TIMP2, TNF alpha and VEGF.<br>Mouse: EFNA1, GM-CSF, IFN gamma, IL1 beta, IL2, IL4, IL6, IL10, IL17A and TNF alpha.<br>Rat: EFNA1, IFN gamma, IL1 beta, IL4, IL6, IL10 and TNF alpha. |
| Target Name | Ephrin A1 |
| Conjugation | HRP |
| Conjugation Note | Substrate: TMB and read at 450 nm. |
| Sensitivity | 39 pg/ml |
| Sample Type | Serum, plasma and cell culture supernatants. |
| Standard Range | 78 - 5000 pg/ml |
| Sample Volume | 20 - 100 µl |
| Precision | Intra-Assay CV: 4.7%<br>Inter-Assay CV: 2.7% |
| Alternate Names | ECKLG; B61; EPLG1; TNFAIP4; Immediate early response protein B61; Tumor necrosis factor alpha-induced protein 4; EFL1; LERK-1; EPH-related receptor tyrosine kinase ligand 1; LERK1; TNF alpha-induced protein 4; Ephrin-A1 |

## Application Instructions

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| Assay Time | ~ 2.5 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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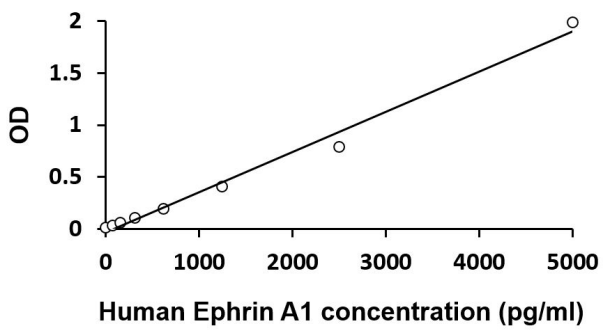
| Gene Symbol | EFNA1 |
| Gene Full Name | ephrin-A1 |
| Background | This gene encodes a member of the ephrin (EPH) family. The ephrins and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, especially in the nervous system and in erythropoiesis. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. This gene encodes an EFNA class ephrin which binds to the EPHA2, EPHA4, EPHA5, EPHA6, and EPHA7 receptors. Two transcript variants that encode different isoforms were identified through sequence analysis. [provided by RefSeq, Jul 2008] |
| Function | Cell surface GPI-bound ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. Plays an important role in angiogenesis and tumor neovascularization. The recruitment of VAV2, VAV3 and PI3-kinase p85 subunit by phosphorylated EPHA2 is critical for EFNA1-induced RAC1 GTPase activation and vascular endothelial cell migration and assembly. Exerts anti-oncogenic effects in tumor cells through activation and down-regulation of EPHA2. Activates EPHA2 by inducing tyrosine phosphorylation which leads to its internalization and degradation. Acts as a negative regulator in the tumorigenesis of gliomas by down-regulating EPHA2 and FAK. Can evoke collapse of embryonic neuronal growth cone and regulates dendritic spine morphogenesis. [UniProt] |
| Highlight | Related products:<br>Ephrin A1 antibodies; Ephrin A1 ELISA Kits;<br>New ELISA data calculation tool:<br>Simplify the ELISA analysis by GainData |
| PTM | Undergoes proteolysis by a metalloprotease to give rise to a soluble monomeric form.<br><br>N-Glycosylation is required for binding to EPHA2 receptor and inducing its internalization. [UniProt] |
| Cellular Localization | Cell membrane; Lipid-anchor, GPI-anchor. Ephrin-A1, secreted form: Secreted. [UniProt] |

## Images




ARG82593 Human Ephrin A1 ELISA Kit standard curve image

ARG82593 Human Ephrin A1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.