

ARG81536 Human FOLR1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

| Cat. No. | Component Name | Package | Temp |
|--------------|---------------------------------------|----------------------|---|
| ARG81536-001 | Antibody-coated microplate | 8 X 12 strips | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG81536-002 | Standard | 2 X 10 ng/vial | 4°C |
| ARG81536-003 | Standard/Sample diluent | 30 ml (Ready to use) | 4°C |
| ARG81536-004 | Antibody conjugate concentrate (100X) | 1 vial (100 µl) | 4°C |
| ARG81536-005 | Antibody diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG81536-006 | HRP-Streptavidin concentrate (100X) | 1 vial (100 µl) | 4°C |
| ARG81536-007 | HRP-Streptavidin diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG81536-008 | 25X Wash buffer | 20 ml | 4°C |
| ARG81536-009 | TMB substrate | 10 ml (Ready to use) | 4°C (Protect from light) |
| ARG81536-010 | STOP solution | 10 ml (Ready to use) | 4°C |
| ARG81536-011 | Plate sealer | 4 strips | Room temperature |

Summary

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| Product Description | ARG81536 Human FOLR1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human FOLR1 in serum, plasma (heparin, EDTA), saliva, urine, human milk and cell culture supernatants. |
| Tested Reactivity | Hu |
| Tested Application | ELISA |
| Specificity | There is no detectable cross-reactivity with other relevant proteins. |
| Target Name | FOLR1 |
| Conjugation | HRP |
| Conjugation Note | Substrate: TMB and read at 450 nm. |
| Sensitivity | 23.45 pg/ml |
| Sample Type | Serum, plasma (heparin, EDTA), saliva, urine, human milk and cell culture supernatants. |
| Standard Range | 46.9 - 3000 pg/ml |
| Sample Volume | 100 µl |

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| Precision | Intra-Assay CV: 6.9% Inter-Assay CV: 8.2% |
| Alternate Names | KB cells FBP; FBP; FOLR; Ovarian tumor-associated antigen MOv18; FR-alpha; Folate receptor alpha; Folate receptor 1; Adult folate-binding protein; Folate receptor, adult |

Application Instructions

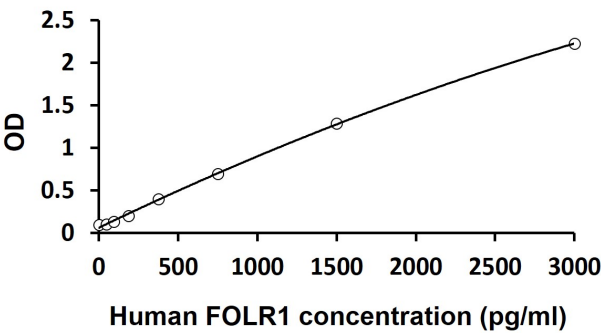
| | |
|------------|-----------|
| Assay Time | ~ 5 hours |
|------------|-----------|

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 | FOLR1 |
| Gene Full Name | folate receptor 1 (adult) |
| Background | The protein encoded by this gene is a member of the folate receptor family. Members of this gene family bind folic acid and its reduced derivatives, and transport 5-methyltetrahydrofolate into cells. This gene product is a secreted protein that either anchors to membranes via a glycosyl-phosphatidylinositol linkage or exists in a soluble form. Mutations in this gene have been associated with neurodegeneration due to cerebral folate transport deficiency. Due to the presence of two promoters, multiple transcription start sites, and alternative splicing, multiple transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Oct 2009] |
| Function | Binds to folate and reduced folic acid derivatives and mediates delivery of 5-methyltetrahydrofolate and folate analogs into the interior of cells. Has high affinity for folate and folic acid analogs at neutral pH. Exposure to slightly acidic pH after receptor endocytosis triggers a conformation change that strongly reduces its affinity for folates and mediates their release. Required for normal embryonic development and normal cell proliferation. [UniProt] |
| Highlight | Related products: FOLR1 antibodies ; FOLR1 ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData |
| PTM | The secreted form is derived from the membrane-bound form either by cleavage of the GPI anchor, or/and by proteolysis catalyzed by a metalloprotease. [UniProt] |



ARG81536 Human FOLR1 ELISA Kit standard curve image

ARG81536 Human FOLR1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.