10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# FOLR1

Catalog # PVGS1813

## Product Information

| | |
|---|---|
| **Primary Accession** | P15328 |
| **Species** | Human |
| **Sequence** | Arg25-Met233 |
| **Purity** | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC |
| **Endotoxin Level** | Less than 1EU per μg by the LAL method. |
| **Biological Activity** | Immobilized FOLR1, His & Avi, Human (Cat.No.: Z03924) at 1 μg/ml (100 μl/Well) on the plate can bind Anti-FOLR1 Antibody, hFc Tag |
| **Expression System** | HEK293 |
| **Theoretical Molecular Weight** | 27.5 kDa |
| **Formulation** | Lyophilized from a 0.22 μm filtered solution in PBS, pH 7.4 . |
| **Reconstitution** | It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in dd$H_2O$ more than 100 μg/ml. |
| **Storage & Stability** | Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles. |

## Additional Information

| | |
|---|---|
| **Gene ID** | 2348 |
| **Other Names** | Folate receptor alpha, FR-alpha, Adult folate-binding protein, FBP, Folate receptor 1, Folate receptor, adult, KB cells FBP, Ovarian tumor-associated antigen MOv18, FOLR1, FOLR |
| **Target Background** | Folate Receptor 1 (FOLR1), also known as Folate Receptor alpha and Folate Binding Protein (FBP), is a 37 - 42 kDa protein that mediates the cellular uptake of folic acid and reduced folates. Dietary folates are required for many key metabolic processes including nucleotide and methionine synthesis, the interconversion of glycine and serine, and histidine breakdown. FOLR1 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. |

## Protein Information

| | |
|---|---|
| **Name** | FOLR1 |
| **Synonyms** | FOLR |
| **Function** | Binds to folate and reduced folic acid derivatives and mediates delivery of 5-methyltetrahydrofolate and folate analogs into the interior of cells (PubMed:19074442, PubMed:23851396, PubMed:23934049, PubMed:2527252, PubMed:8033114, PubMed:8567728). Has high affinity for folate and folic acid analogs at neutral pH (PubMed:23851396, PubMed:23934049, PubMed:2527252, PubMed:8033114, PubMed:8567728). Exposure to slightly acidic pH after receptor endocytosis triggers a conformation change that strongly reduces its affinity for folates and mediates their release (PubMed:8567728). Required for normal embryonic development and normal cell proliferation (By similarity). |
| **Cellular Location** | Cell membrane; Lipid-anchor, GPI-anchor Apical cell membrane; Lipid-anchor, GPI- anchor Basolateral cell membrane; Lipid-anchor, GPI-like-anchor. Secreted Cytoplasmic vesicle. Cytoplasmic vesicle, clathrin-coated vesicle. Endosome. Note=Endocytosed into cytoplasmic vesicles and then recycled to the cell membrane |
| **Tissue Location** | Primarily expressed in tissues of epithelial origin. Expression is increased in malignant tissues. Expressed in kidney, lung and cerebellum. Detected in placenta and thymus epithelium. |