

**FOLR1**  
**Catalog # PVGS1813****Specification**

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**FOLR1 - Product Information**Primary Accession [P15328](#)**Species**  
Human**Sequence**  
Arg25-Met233**Purity**  
> 95% as determined by Bis-Tris PAGE  
> 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 ddH<sub>2</sub>O 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.**FOLR1 - 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.

## **FOLR1 - 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:<a href="http://www.uniprot.org/citations/19074442" target="\_blank">19074442</a>, PubMed:<a href="http://www.uniprot.org/citations/23851396" target="\_blank">23851396</a>, PubMed:<a href="http://www.uniprot.org/citations/23934049" target="\_blank">23934049</a>, PubMed:<a href="http://www.uniprot.org/citations/2527252" target="\_blank">2527252</a>, PubMed:<a href="http://www.uniprot.org/citations/8033114" target="\_blank">8033114</a>, PubMed:<a href="http://www.uniprot.org/citations/8567728" target="\_blank">8567728</a>). Has high affinity for folate and folic acid analogs at neutral pH (PubMed:<a href="http://www.uniprot.org/citations/23851396" target="\_blank">23851396</a>, PubMed:<a href="http://www.uniprot.org/citations/23934049" target="\_blank">23934049</a>, PubMed:<a href="http://www.uniprot.org/citations/2527252" target="\_blank">2527252</a>, PubMed:<a href="http://www.uniprot.org/citations/8033114" target="\_blank">8033114</a>, PubMed:<a href="http://www.uniprot.org/citations/8567728" target="\_blank">8567728</a>). Exposure to slightly acidic pH after receptor endocytosis triggers a conformation change that strongly reduces its affinity for folates and mediates their release (PubMed:<a href="http://www.uniprot.org/citations/8567728" target="\_blank">8567728</a>). 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.

## **FOLR1 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

## **FOLR1 - Images**