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FOLR1

Catalog # PVGS1759

Specification

FOLR1 - Product Information

Primary Accession P35846

Species
Mouse

Sequence
Thr25-Ser232

Purity
> 95% as determined by Bis-Tris PAGE
 > 95% as determined by HPLC

Endotoxin Level
Less than 1EU per μg by the LAL method.

Expression System
HEK293

Theoretical Molecular Weight
25.36 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 ddH₂O 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 14275

Other Names
Folate receptor alpha, FR-alpha, Folate receptor 1, Folate-binding protein 1, Folr1, Fbp1, Folbp1

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 Fbp1, Folbp1

Function
Binds to folate and reduced folic acid derivatives and mediates delivery of 5-methyltetrahydrofolate and folate analogs into the interior of cells (PubMed:1894617). Has high affinity for folate and folic acid analogs at neutral pH (By similarity). Exposure to slightly acidic pH after receptor endocytosis triggers a conformation change that strongly reduces its affinity for folates and mediates their release (By similarity). Required for normal embryonic development and normal cell proliferation (PubMed:10508523, PubMed:12854656, PubMed:15259034, PubMed:17286298). Required for renal folate reabsorption (PubMed:15703271).

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P15328}; Lipid-anchor, GPI-anchor {ECO:0000250|UniProtKB:P15328}. Apical cell membrane {ECO:0000250|UniProtKB:P15328}; Lipid-anchor, GPI-anchor {ECO:0000250|UniProtKB:P15328}. Basolateral cell membrane {ECO:0000250|UniProtKB:P15328}; Lipid-anchor, GPI-like-anchor {ECO:0000250|UniProtKB:P15328}. Secreted {ECO:0000250|UniProtKB:P15328}. Cytoplasmic vesicle {ECO:0000250|UniProtKB:P15328}. Cytoplasmic vesicle, clathrin-coated vesicle {ECO:0000250|UniProtKB:P15328}. Endosome {ECO:0000250|UniProtKB:P15328}. Note=Endocytosed into cytoplasmic vesicles and then recycled to the cell membrane {ECO:0000250|UniProtKB:P15328}

Tissue Location
Detected in kidney proximal tubules (at protein level).

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 Cytomety
- Cell Culture

FOLR1 - Images