

Human CellExp FOLR1, mouse recombinant protein
FOLR1, FBP, FOLR, FOLR-1, Folate-receptor-alpha
Catalog # PBV11078r**Specification**

Human CellExp FOLR1, mouse recombinant protein - Product infoPrimary Accession
Calculated MW[P35846](#)

This protein is fused with 6×his tag at the C-terminus and has a calculated MW of 25.6 kDa expressed. The predicted N-terminus is Thr 25. Protein migrates as 45-50 kDa in reduced SDS-PAGE resulting from glycosylation. KDa

Human CellExp FOLR1, mouse recombinant protein - Additional InfoGene ID **14275**
Gene Symbol **FOLR1****Other Names**

FOLR1, FBP, FOLR, FOLR-1, Folate-receptor-alpha

Gene Source **Mouse**
Source **HEK293 cells**
Assay&Purity **SDS-PAGE; ≥95%**
Assay2&Purity2 **N/A;**
Recombinant **Yes**
Results

Measured in a competitive binding assay. When Folic Acid-Bovine Serum Albumin is immobilized at 5 µg/mL (100 µL/well), Recombinant Mouse (rm) FOLR1 inhibits 50% binding of biotinylated rm FOLR1 (7.9 nM) at the concentration range of 10-100 nM.

Target/Specificity
FOLR1**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized**Storage**

-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

Human CellExp FOLR1, mouse recombinant protein - 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](#)

Human CellExp FOLR1, mouse recombinant protein - Images

Human CellExp FOLR1, mouse recombinant protein - Background

Folate Receptor 1 (FOLR1) also known as Folate receptor alpha, Folate Binding Protein (FBP), FOLR, and is a member of the folate receptor (FOLR) family. Members of this gene family have a high affinity for folic acid and for several reduced folic acid derivatives, and mediate delivery of 5-methyltetrahydrofolate to the interior of cells. Mature FOLR1 is an N-glycosylated protein that is anchored to the cell surface by a GPI linkage. FOLR1 is predominantly expressed on epithelial cells and is dramatically upregulated on many carcinomas. FOLR1 is internalized to the endosomal system where it dissociates from its ligand before recycling to the cell surface. A soluble form of FOLR1 can be proteolytically shed from the cell surface into the serum and breast milk. Defects in FOLR1 are the cause of neurodegeneration due to cerebral folate transport deficiency (NCFTD). NCFTD is an autosomal recessive disorder resulting from brain-specific folate deficiency early in life.

Human CellExp FOLR1, mouse recombinant protein - References

Brigle K.E.,et al.J. Biol. Chem. 266:17243-17249(1991).
Bolton J.A.,et al.Gene 230:215-224(1999).
Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Brigle K.E.,et al.J. Biol. Chem. 267:22351-22355(1992).