abcam

Product datasheet

Native cow Folate Binding Protein/FBP ab82272

1 References

Description

Product name	Native cow Folate Binding Protein/FBP
Biological activity	Activity: 18.6ug/ml (Folate binding)
Purity	> 95 % HPLC.
Expression system	Native
Protein length	Full length protein
Animal free	No
Nature	Native
Species	Cow
Additional sequence information	Source = bovine milk

Specifications

Our **Abpromise guarantee** covers the use of **ab82272** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Form	Liquid
Additional notes	Source: bovine milk. Protein content: 2.3mg/ml (indirectly using the measured activity in ug/ml and the binding capacity of 8ug folic acid/mg Folate binding protein.) . Previously labelled as Folate Binding Protein

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. Constituents: 1.968% Sodium phosphate, 0.174% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function	Binds to folate and reduced folic acid derivatives and mediates delivery of 5-methyltetrahydrofolate to the interior of cells.

Tissue specificity	Exclusively expressed in tissues of epithelial origin. Expression is increased in malignant tissues. Expressed in kidney, lung and cerebellum.
Involvement in disease	Defects in FOLR1 are the cause of neurodegeneration due to cerebral folate transport deficiency (NCFTD) [MIM:613068]. NCFTD is an autosomal recessive disorder resulting from brain-specific folate deficiency early in life. Onset is apparent in late infancy with severe developmental regression, movement disturbances, epilepsy, and leukodystrophy. Note=Recognition and diagnosis of this disorder is critical because folinic acid therapy can reverse the clinical symptoms and improve brain abnormalities and function.
Sequence similarities	Belongs to the folate receptor family.
Post-translational modifications	Eight disulfide bonds are present. 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.
Cellular localization	Cell membrane. Secreted.

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