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Datasheet for 200-106-148

Folate Binding Protein Antibody Biotin Conjugated

Overview

Description:	Anti-Folate Binding Protein (Bovine Milk) (GOAT) Antibody Biotin Conjugated (BULK ORDER) - 200-106-148
Item No.:	200-106-148
Size:	10 mg
Applications:	WB, Biochemical Assay
Reactivity:	Bovine
Host Species:	Goat

Product Details

Background:	Anti-Folate Binding Protein antibody belongs to the folate receptor family and binds to folate and reduced folic acid derivatives. It further regulates delivery of 5-methyltetrahydrofolate to the cell interior. Folate expresses solely in epithelial tissues, and expression is increased in malignant tissues. Anti-Folate Binding Protein antibody is ideal for researchers investigating Tags & Cell Markers and Cancer research.
Synonyms:	goat anti-Folate Binding Protein Antibody biotin Conjugation, biotin Conjugated goat anti-Folate Binding Protein Antibody, Folate receptor alpha, FR-alpha, Folate receptor 1, Milk folate-binding protein, Folate-binding protein 1, FBP
Host Species:	Goat
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	FOLR1
Reactivity:	Bovine
Immunogen Type:	Native Protein
Immunogen:	Folate Binding Protein [Bovine Milk]

Purity/Specificity:	Anti-Folate Binding Protein is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin, anti-Goat Serum as well as purified and partially purified Folate Binding Protein [Bovine Milk]. Cross reactivity against Folate Binding Protein from other sources is unknown.
Relevant Links:	• UniProtKB - P02702 • NCBI - NP_001193456.1 • GeneID - 539750

Application Details

Tested Applications:	WB
Suggested Applications:	Biochemical Assay (Based on references)
Application Note:	Anti-Folate Binding Protein has been tested by western blot and is suitable to be assayed against 1.0 ug of Folate Binding Protein in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:4,000 to 1:20,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
IP:	1:100
WB:	1:500 - 1:5,000

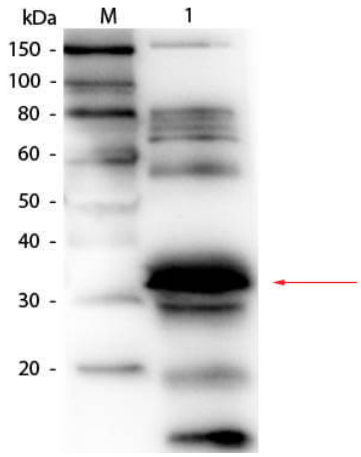
Formulation

Physical State:	Lyophilized
Concentration:	10.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of Goat anti-Folate Binding Protein (Bovine Milk) Antibody Biotin Conjugated. Lane 1: Blotto. Load: 50.0 ug per lane. Primary antibody: Goat anti-Folate Binding Protein (Bovine Milk) Antibody Biotin Conjugated at 1:1,000 overnight at 4°C. Secondary antibody: HRP Streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 for 30 minutes at RT. Predicted/Observed size: 28 kDa, 30 kDa for Folate Binding Protein. Migrates slightly higher. Other band(s): non-specific proteins in Blotto.

References

- Kameyama et al. Induction of mitophagy-mediated antitumor activity with folate-appended methyl-β-cyclodextrin. *International Journal of Nanomedicine* (2017)

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