Datasheet: 0100-0528

BATCH NUMBER 170329

Description:	MOUSE ANTI FOLATE BINDING PROTEIN
Specificity:	FOLATE BINDING PROTEIN
Other names:	FBP
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	SF55 (BGN/1210/55)
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Western Blotting			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Target Species	Bovine
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN_3)
Approx. Protein Concentrations	1.0 mg/ml
Immunogen	Folate binding protein from bovine milk.

External Database Links	**UniProt:** P02702 Related reagents **Entrez Gene:** 432398 FBP1 Related reagents
RRID	AB_2247195
Specificity	**Mouse anti folate binding protein antibody, clone SF55,** recognizes the folate receptor alpha, also known as folate binding protein (FBP) and Milk folate-binding protein. Folate receptor alpha is a 241 amino acid 30 kDa protein with a 19 amino acid signal peptide and a 7 amino acid c-terminal propeptide cleaved in the mature form. The folate receptor alpha has a high affinity for folate and several reduced folic acid derivatives and mediates the intracelullar delivery of 5 methyltetrahydrofolate. Membrane bound and soluble forms of a high affinity FBP have been found in kidney, placenta, serum, milk, and several cell lines. Mouse anti folate binding protein antibody, clone SF55 can enhance STAT3 activation through binding to the folatereceptor alpha (Hansen *et al.* 2015).
References	1. Hansen, M.F. *et al.* (2015) Folic acid mediates activation of the pro-oncogene STAT3 via the Folate Receptor alpha. Cell Signal. 27 (7): 1356-68.
Further Reading	1. Henderson, G.B. (1990) Folate-binding proteins. Annu Rev Nutr. 10: 319-35. 2. Jones, M.L. & Nixon, P.F. (2002) Tetrahydrofolates are greatly stabilized by binding to bovine milk folate-binding protein. J Nutr. 132 (9): 2690-4.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/0100-0528 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE

Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP

North & South America
Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide
Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com

Europe
Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M362747:200528'

Printed on 29 Aug 2024