

Datasheet: 0100-0528

BATCH NUMBER 168641

Description:	MOUSE ANTI FOLATE BINDING PROTEIN
Specificity:	FOLATE BINDING PROTEIN
Other names:	FBP, FOLATE RECEPTOR ALPHA
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	<0.1% 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 intracellular 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 folate receptor 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

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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 (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M429152:240320'

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