

Datasheet: 0100-0528

**BATCH NUMBER 167434**

<b>Description:</b>	MOUSE ANTI FOLATE BINDING PROTEIN
<b>Specificity:</b>	FOLATE BINDING PROTEIN
<b>Other names:</b>	FBP, FOLATE RECEPTOR ALPHA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	SF55 (BGN/1210/55)
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Bovine
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from ascites
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	1.0 mg/ml
<b>Immunogen</b>	Folate binding protein from bovine milk.

**External Database  
Links**

**UniProt:**

[P02702](#)    [Related reagents](#)

**Entrez Gene:**

[432398](#)    FBP1    [Related reagents](#)

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**RRID**                      AB\_2247195

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**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](#)).

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**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.](#)

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**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.](#)

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**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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/0100-0528>  
10040

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)    [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>

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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](https://bio-rad-antibodies.com/datasheets)  
'M388937:210806'

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