

## Datasheet: 0100-0528

<b>Description:</b>	MOUSE ANTI FOLATE BINDING PROTEIN
<b>Specificity:</b>	FOLATE BINDING PROTEIN
<b>Other names:</b>	FBP
<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
<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](#)

<b>Specificity</b>	<p><b>Mouse anti folate binding protein antibody, clone SF55</b>, 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.</p> <p>Mouse anti folate binding protein antibody, clone SF55 can enhance STAT3 activation through binding to the folate receptor alpha (<a href="#">Hansen et al. 2015</a>).</p>
<b>References</b>	<p>1. Hansen, M.F. <i>et al.</i> (2015) Folic acid mediates activation of the pro-oncogene STAT3 via the Folate Receptor alpha. <a href="#">Cell Signal. 27 (7): 1356-68.</a></p>
<b>Further Reading</b>	<p>1. Henderson, G.B. (1990) Folate-binding proteins. <a href="#">Annu Rev Nutr. 10: 319-35.</a></p> <p>2. Jones, M.L. &amp; Nixon, P.F. (2002) Tetrahydrofolates are greatly stabilized by binding to bovine milk folate-binding protein. <a href="#">J Nutr. 132 (9): 2690-4.</a></p>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
<b>Shelf Life</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation available at:  Material Safety Datasheet Documentation #10303 available at:  <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf</a></p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®549</a> , <a href="#">DyLight®649</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>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight®800</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Human Anti Mouse IgG1 (HCA036...)	<a href="#">HRP</a>

### Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

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**Europe**

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