Datasheet: MCA5918GA

### Description:
MOUSE ANTI BOVINE CD32

### Specificity:
CD32

### Other names:
FcRII

### Format:
Purified

### Product Type:
Monoclonal Antibody

### Clone:
CCG36

### Isotype:
IgG1

### Quantity:
0.1 mg

### 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).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td></td>
<td></td>
<td></td>
<td>1/10 - 1/50</td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
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</tbody>
</table>

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 appropriate negative/positive controls.

### Target Species
Bovine

### Species Cross Reactivity
Reacts with: Sheep

**N.B.** Antibody reactivity and working conditions may vary between species.

### Product Form
Purified IgG - Liquid

### Preparation
Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

### Buffer Solution
Phosphate buffered saline

### Preservative Stabilisers
0.09% Sodium Azide (NaN₃)

### Carrier Free
Yes

### Approx. Protein Concentrations
IgG concentration 1.0 mg/ml
**Immunogen**

Bovine FcγRII-transfected COS7 cells.

**External Database Links**

<table>
<thead>
<tr>
<th>UniProt: Q28110</th>
<th>Related reagents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entrez Gene: 282229 FCGR2</td>
<td>Related reagents</td>
</tr>
</tbody>
</table>

**Fusion Partners**

Spleen cells from immunised BALB/c mice were fused with cells of the NS-1 myeloma cell line.

**Specificity**

Mouse anti Bovine CD32 antibody, clone CCG36 recognizes the bovine homologue of human CD32, one of a group of Fc receptors belonging to the immunoglobulin superfamily and involved in phagocytosis of opsonized microbes. Bovine CD32 is a single pass type 1 membrane protein of approximately 32kDa, expressed on the cell surface of most cells including B-lymphocytes, monocytes, neutrophils and afferent veiled lymph dendritic cells Chattha, K. *et al.* 2010. It has been shown that expression of bovine CD32 is higher on macrophages than on neutrophils.

CD32 can function in an inhibitory capacity to antibody production and is the low affinity Fc receptor for IgG (FcRII), binding to the Fc region of immunoglobulin gamma Chattha *et al.* 2009.

Mouse anti Bovine CD32, clone CCG36 is one of a number of anti bovine CD32 reagents available from Bio-Rad, clone CCG39 is of interest in that it also recognizes ovine CD32 while clone CCG39 recognizes only bovine CD32.

**Flow Cytometry**

Use 10μl of the suggested working dilution to label 1x10^6 cells in 100μl

**References**


**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**

18 months from date of despatch

**Health And Safety Information**

Material SafetyDatasheet documentation #10040 available at:

Related Products

**Recommended Secondary Antibodies**

<table>
<thead>
<tr>
<th>Antibody Type</th>
<th>Dilution</th>
<th>Detection</th>
<th>Conjugate</th>
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</thead>
<tbody>
<tr>
<td>Goat Anti Mouse IgG (STAR87...)</td>
<td></td>
<td></td>
<td>Alk. Phos., HRP</td>
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<td>Goat Anti Mouse IgG (STAR77...)</td>
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<td>HRP</td>
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<td>Rabbit Anti Mouse IgG (STAR12...)</td>
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<td></td>
<td>RPE</td>
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<td>Rabbit Anti Mouse IgG (STAR8...)</td>
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<td></td>
<td>DyLight®800</td>
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<tr>
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<td></td>
<td>HRP</td>
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<td>FITC</td>
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<tr>
<td>Goat Anti Mouse IgG (Fc) (STAR120...)</td>
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<td></td>
<td>FITC, HRP</td>
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<tr>
<td>Rabbit Anti Mouse IgG (STAR9...)</td>
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<td></td>
<td>FITC</td>
</tr>
<tr>
<td>Goat Anti Mouse IgG (H/L) (STAR117...)</td>
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<td></td>
<td>Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP</td>
</tr>
</tbody>
</table>

**Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

**Recommended Useful Reagents**

MOUSE ANTI BOVINE CD32:FITC (MCA5919F)
MOUSE ANTI BOVINE CD32 (MCA5919GA)

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