Datasheet: MCA5918PE

Description: MOUSE ANTI BOVINE CD32:RPE

Specificity: CD32

Other names: FcRII

Format: RPE

Product Type: Monoclonal Antibody

Clone: CCG36

Isotype: IgG1

Quantity: 100 TESTS

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.

<table>
<thead>
<tr>
<th></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>Neat</td>
</tr>
</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 conjugated to R. Phycoerythrin (RPE) - lyophilized

Reconstitution

Reconstitute with 1.0 ml distilled water

Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.

Max Ex/Em

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPE 488nm laser</td>
<td>496</td>
<td>578</td>
</tr>
</tbody>
</table>

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)
1% Bovine Serum Albumin
5% Sucrose

Immunogen

Bovine FcγRII-transfected COS7 cells.
### 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 CCG36 is of interest in that it also recognizes ovine CD32 while clone CCG39 recognizes only bovine CD32.

### Flow Cytometry
Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul.

### References

### Storage
Prior to reconstitution store at +4°C.
After reconstitution store at +4°C.
DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light.

### Guarantee
18 months from date of reconstitution

### Health And Safety Information

### Regulatory
For research purposes only
Related Products

**Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL RPE (MCA928PE)

**Recommended Useful Reagents**

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