Datasheet: MCA1736GA

**Description:** MOUSE ANTI PIG CD25

**Specificity:** CD25

**Other names:** IL-2R ALPHA CHAIN

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** K231.3B2

**Isotype:** IgG1

**Quantity:** 0.1 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).

<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>1/25 - 1/200</td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td>✗</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Paraffin</td>
<td></td>
<td>✗</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td>✗</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td></td>
<td>✗</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Blotting</td>
<td></td>
<td>✗</td>
<td></td>
<td></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**

Pig

**Product Form**

Purified IgG - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein A 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**

Con A activated porcine peripheral blood lymphocytes.
Fusion Partners
Spleen cells from immunised mice were fused with cells of the mouse P3-X63-Ag.8.653 myeloma cell line.

Specificity
Mouse anti Pig CD25, clone K231.3B2 recognizes porcine CD25, the alpha chain of the interleukin 2 receptor (IL-2Ra), also known as the low affinity Interleukin 2 receptor. The IL-2 receptor exists in three forms, the high affinity heterodimer, the intermediate affinity β monomer and the low affinity α monomer configurations. Clone K231.3B2 was clustered as CD25 at the First International Workshop to Define Swine Cluster of Differentiation (CD) Antigens (Lunney et al. 1994).

Mouse anti pig CD25, clone K231.3B2 immunoprecipitates a protein of ~65-70 kDa from activated lymphocyte preparations (Bailey et al. 1992).

CD25 is a 270 amino acid single pass type I transmembrane glycoprotein containing 2 Sushi domains. Low expression of CD25 is seen on resting peripheral blood mononuclear cells, rapidly up-regulated following stimulation by concanavalin A and phorbol myristate acetate, indicative of its role as an activation antigen (Bullido et al. 1999).

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

References
11. Williams, A.R. et al. (2016) Polymerization-dependent activation of porcine γδ T-cells by...

Further Reading

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.

Shelf Life
18 months from date of despatch

Health And Safety Information

Regulatory
For research purposes only

Related Products

Recommended Secondary Antibodies
Goat Anti Mouse IgG (STAR76...) RPE
Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...) FITC
Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP
Rabbit Anti Mouse IgG (STAR8...) DyLight®800
Goat Anti Mouse IgG (STAR70...) FITC
Rabbit Anti Mouse IgG (STAR13...) HRP
Human Anti Mouse IgG1 (HCA036...) HRP

Recommended Negative Controls
MOUSE IgG1 NEGATIVE CONTROL (MCA928)

Recommended Useful Reagents
MOUSE ANTI PIG CD4 ALPHA:FITC (MCA1749F)
MOUSE ANTI PIG CD14:FITC (MCA1218F)
MOUSE ANTI PIG CD4 ALPHA:RPE (MCA1749PE)
MOUSE ANTI PIG wCD8 ALPHA:FITC (MCA1223F)
MOUSE ANTI PIG wCD8 ALPHA:RPE (MCA1223PE)
MOUSE ANTI PIG CD45:Alexa Fluor® 647 (MCA1222A647)