Datasheet: MCA2365PE

Description: MOUSE ANTI BOVINE CD335:RPE

Specificity: CD335

Other names: NKp46

Format: RPE

Product Type: Monoclonal Antibody

Clone: AKS1

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>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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Flow Cytometry

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system to a concentration equivalent to their test reagent.

Target Species

Bovine

Species Cross Reactivity

Reacts with: American Bison

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 ml distilled water

Max Ex/Em

Fluorophore: RPE 488nm laser

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<tr>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<tr>
<td>496</td>
<td>578</td>
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</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

1% Bovine Serum Albumin

5% Sucrose

Immunogen

Fusion protein consisting of the extracellular region of bovine CD335.

External Database

UniProt:
Fusion Partners
Spleen cells from immunised Balb/c mice were fused with cells of the NS-0 myeloma cell line.

Specificity
**Mouse anti Bovine CD335 antibody, clone AKS1** recognizes bovine CD335, also known as Nkp46 and Natural cytotoxicity triggering receptor 1. CD335 is a type I transmembrane protein, with two extracellular C2-type immunoglobulin-like domains, which functions as an activating receptor. CD335 is expressed by human natural killer cells (Sivori et al. 1997). The bovine homologue is expressed on bovine NK cells (Storset et al. 2004) and no expression of CD335 has been detected on B cells, T cells, monocytes or granulocytes.

Clone AKS1 is reported to activate lysis of FcgammaR-expressing cell line P815, by IL-2 activated Nkp46+ cells (Storset et al. 2004).

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

References
30. Steinbach, S. et al. (2016) CD4+ and γδ T Cells are the main Producers of IL-22 and IL-17A in Lymphocytes from *Mycobacterium bovis*-infected Cattle. Sci Rep. 6: 29990.

**Further Reading**


**Storage**

Prior to reconstitution store at +4°C.
Follow reconstitution store at +4°C.
DO NOT FREEZE.
This product should be stored undiluted. This product is photosensitive and should be protected.
from light. Should this product contain a precipitate we recommend microcentrifugation before use.

### Shelf Life
12 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)

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