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

**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></th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Neat</td>
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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**

<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation (nm)</th>
<th>Emission (nm)</th>
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<tbody>
<tr>
<td>PE 488nm laser</td>
<td>496</td>
<td>578</td>
</tr>
<tr>
<td>PE 561nm laser</td>
<td>546</td>
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**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.
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 10⁶ cells in 100ul.

References


**Further Reading**

**Storage**
Prior to reconstitution store at +4°C.
Following 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

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**Related Products**

**Recommended Negative Controls**

**MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)**

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