Datasheet: MCA2365GA
BATCH NUMBER 1801

| Description: | MOUSE ANTI BOVINE CD335 |
| Specificity: | CD335 |
| Other names: | NKp46 |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | AKS1 |
| Isotype: | IgG1 |
| Quantity: | 0.1 mg |

**Product Details**

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>Applications</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>1/50 - 1/200</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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<td>Immunofluorescence</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. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

**Product Form**

Purified IgG - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein G from tissue culture.
**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**  Fusion protein consisting of the extracellular region of bovine CD335.  

**External Database Links**  

<table>
<thead>
<tr>
<th>UniProt</th>
<th>Related reagents</th>
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</thead>
<tbody>
<tr>
<td>Q863H2</td>
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</table>

**Entrez Gene:**  

<table>
<thead>
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<th>Gene ID</th>
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<tbody>
<tr>
<td>369024</td>
<td>NCR1</td>
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</table>

**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 FcγR-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**  

6. Boysen P *et al.* (2006) Bovine CD2-/NKp46+ cells are fully functional natural killer cells...
with a high activation status. **BMC Immunol. 7: 10.**


**Further Reading**


**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.
Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**
12 months from date of despatch

**Health And Safety Information**

**Regulatory**
For research purposes only

### Related Products

**Recommended Secondary Antibodies**

- **Goat Anti Mouse IgG (STAR77...)** [HRP]
- **Rabbit Anti Mouse IgG (STAR12...)** [RPE]
- **Goat Anti Mouse IgG (STAR87...)** [Alk. Phos., HRP]
- **Goat Anti Mouse IgG (STAR76...)** [RPE]
- **Goat Anti Mouse IgG (Fc) (STAR120...)** [FITC, HRP]
- **Rabbit Anti Mouse IgG (STAR13...)** [HRP]
- **Goat Anti Mouse IgG (STAR70...)** [FITC]
- **Goat Anti Mouse IgG (H/L) (STAR117...)** [Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP]
- **Rabbit Anti Mouse IgG (STAR9...)** [FITC]

**Recommended Negative Controls**

- **MOUSE IgG1 NEGATIVE CONTROL (MCA928)**

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  

'M366718:200529'

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