# Datasheet: MCA2365EL

**Description:** MOUSE ANTI BOVINE CD335:Low Endotoxin

**Specificity:** CD335

**Other names:** NKp46

**Format:** Low Endotoxin

**Product Type:** Monoclonal Antibody

**Clone:** AKS1

**Isotype:** IgG1

**Quantity:** 0.5 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>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tr>
<td>Flow Cytometry</td>
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<td>Immunohistology - Frozen</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 - liquid

### Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

None present

### Carrier Free

Yes

### Endotoxin Level

<0.01EU/ug
Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

Immunogen

Fusion protein consisting of the extracellular region of bovine CD335.

External Database Links

UniProt: Q863H2  Related reagents

Entrez Gene: 369024 NCR1  Related reagents

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 10^6 cells in 100ul.

References


**Further Reading**

Storage

Store at -20°C only.

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.

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

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: Low Endotoxin (MCA928EL)