

## Datasheet: MCA2365A488

<b>Description:</b>	MOUSE ANTI BOVINE CD335:Alexa Fluor® 488
<b>Specificity:</b>	CD335
<b>Other names:</b>	NKp46
<b>Format:</b>	ALEXA FLUOR® 488
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AKS1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS/1ml

## 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).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

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.

<b>Target Species</b>	Bovine								
<b>Species Cross Reactivity</b>	Reacts with: American Bison <b>N.B.</b> Antibody reactivity and working conditions may vary between species.								
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 488 - liquid								
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>Alexa Fluor®488</td> <td>495</td> <td>519</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®488	495	519		
Fluorophore	Excitation Max (nm)	Emission Max (nm)							
Alexa Fluor®488	495	519							
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant								
<b>Buffer Solution</b>	Phosphate buffered saline								
<b>Preservative</b>	0.09% Sodium Azide								
<b>Stabilisers</b>	1% Bovine Serum Albumin								
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml								
<b>Immunogen</b>	Fusion protein consisting of the extracellular region of bovine CD335.								
<b>External Database Links</b>	<b>UniProt:</b>								

**Entrez Gene:**

[369024](#)   NCR1   [Related reagents](#)

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

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**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](#)).

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**Flow Cytometry**   Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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- References**
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#### Further Reading

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#### 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. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life** 18 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA928A488\)](#)

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