

Datasheet: MCA2365PE BATCH NUMBER 1511

escription: MOUSE ANTI BOVINE CD335:RPI			
Specificity:	CD335		
Other names:	NKp46		
Format:	RPE		
Product Type:	Monoclonal Antibody		
Clone:	AKS1		
lsotype:	lgG1		
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 <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	•			Neat
	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 B N.B. Antibody reactivity reactivity is derived from personal communication further information.	Bison and workir testing wi as from the	ng conditi thin our la originato	ons may vary betweer aboratories, peer-revie ors. Please refer to refe	n species. Cross ewed publications or erences indicated for
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised				
Reconstitution	Reconstitute with 1 ml distilled water				
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
Immunogen	Fusion protein consisting of the extracellular region of bovine CD335.
External Database Links	UniProt: <u>Q863H2</u> <u>Related reagents</u> 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 <i>et al.</i> 1997). The bovine homologue is expressed on bovine NK cells (Storset <i>et al.</i> 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 (<u>Storset <i>et al.</i> 2004</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	 Storset, A.K. <i>et al.</i> (2004) NKp46 defines a subset of bovine leukocytes with natural killer cell characteristics. Eur J Immunol. 34 (3): 669-76. Kulberg, S. <i>et al.</i> (2004) Reference values for relative numbers of natural killer cells in cattle blood. Dev Comp Immunol. 28 (9): 941-8. Van Rhijn, I. <i>et al.</i> (2007) Massive, sustained γ/δ T cell migration from the bovine skin <i>in vivo.</i> J Leukoc Biol. 81: 968-73. Toka, F.N. <i>et al.</i> (2011) Rapid and Transient Activation of γ/δ T Cells to IFN-γ Production, NK Cell-Like Killing, and Antigen Processing during Acute Virus Infection. J Immunol. 186: 4853-61. Bastos, R.G. <i>et al.</i> (2008) Bovine NK cells acquire cytotoxic activity and produce IFN-γ after stimulation by <i>Mycobacterium bovis</i> BCG- or <i>Babesia bovis</i>-exposed splenic dendritic cells. Vet Immunol Immunopathol. 124: 302-12. Boysen P <i>et al.</i> (2006) Bovine CD2-/NKp46+ cells are fully functional natural killer cells with a high activation status. <u>BMC Immunol. 7: 10.</u> Elhmouzi-Younes, J. <i>et al.</i> (2010) Ovine CD16+/CD14- blood lymphocytes present all the major characteristics of natural killer cells. <u>Vet Res. 41:4.</u> Hoek, A. <i>et al.</i> (2009) Subpopulations of bovine WC1(+) γ/δ T cells rather than

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Further Reading	1. Sivori, S. <i>et al.</i> (1997) p46, a novel natural killer cell-specific surface molecule that mediates cell activation. <u>J Exp Med. 186 (7): 1129-36.</u>					
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Storage	Prior to reconstitution store at +4°C.					
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Storage Guarantee	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.					
Storage Guarantee Health And Safety	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. 12 months from date of reconstitution. Material Safety Datasheet documentation available at:					
Storage Guarantee Health And Safety Information	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. 12 months from date of reconstitution. Material Safety Datasheet documentation available at: https://www.bio-rad-antibodies.com/SDS/MCA2365PE					
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Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad	d.com	Email: antibody_sales_uk@bio-ra	d.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M271535:150601'

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