

Datasheet: MCA1783A647

Description:	MOUSE ANTI BOVINE INTERFERON GAMMA:Alexa Fluor®647
Specificity:	IFN GAMMA
Other names:	INTERFERON GAMMA
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	CC302
Isotype:	lgG1
Quantity:	100 TESTS/1ml

Product Details

Applications	This product has been	reported to w	ork in th	ne following application	s. This information is		
	derived from testing within our laboratories, peer-reviewed publications or personal						
	communications from	the originators	Please	e refer to references in	dicated for further		
	information. For general protocol recommendations, please visit www.bio						
	rad antibodios com/pro		ommen		<u></u>		
	iau-antiboules.com/pro	Voc	No	Not Determined	Suggested Dilution		
	Flow Cytometry (1)	165	NO	Not Determined	1/10 - 1/100		
	Whore this product ha	a not been too	tod for	una in a particular tach	nique this does not		
	where this product has not been tested for use in a particular technique this does not						
	necessarily exclude its use in such procedures. Suggested working dilutions are given as						
	a guide only. It is recommended that the user titrates the product for use in their own						
	system using appropriate negative/positive controls.						
	(1) Membrane perme) Membrane permeabilization is required for this application. The use of					
	Leucoperm (Product	Code BUF09) is rec	ommended for this p	urpose.		
Target Species	Bovine						
Species Cross	Reacts with: Human, F	Pig, Dog, Hors	e, Shee	ep, Goat, Dolphin, Ferre	et, Mink, Fin Whale,		
Reactivity	Rabbit						
	Based on sequence si	milarity, is exp	ected to	o react with:Mustelid			
	N.B. Antibody reactivit	ty and working	conditi	ons may vary between	species. Cross		
	reactivity is derived fro	om testing with	in our la	aboratories, peer-reviev	wed publications or		
	personal communication	ons from the c	riginato	ors. Please refer to refe	rences indicated for		
	' further information.		U				
Product Form	Dumified laC equivante		· -				
	Punned IgG conjugate	ed to Alexa Flu	or® 647	7 - liquid			
Max Ex/Em	Fluorophore	Excitation Ma	or® 647 I x (nm)	7 - liquid Emission Max (nm)			

Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin		
Approx. Protein Concentrations	IgG concentration 0.05mg/ml		
External Database Links	UniProt:		
	Entrez Gene: <u>281237</u> IFNG <u>Related reagents</u>		
RRID	AB_2123327		
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.		
Specificity	Mouse anti Bovine IFN-y antibody, clone CC302 recognizes bovine interferon-gamma, a 143 amino acid cytokine with potent activating, antiviral and anti proliferative properties, produced as a pro-peptide with an additional 23 amino acid N-terminal signal peptide sequence having a molecular weight of ~20 kDa. IFNy is predominantly secreted by activated T lymphocytes in response to specific mitogens as a result of infection (Rhodes <u>et al. 2000</u>).		
	Mouse anti bovine γ interferon antibody, clone CC302 has been demonstrated to be reactive to a number of mammalian species including human, sheep, dog, pig, goat and mink (Pedersen <i>et al.</i> 2002). Mouse anti Bovine IFN γ antibody, clone CC302 has been used successfully for the evaluation of γ interferon levels in the sera of calves naturally infected with <i>M. avium.</i> subsp <i>paratuberculosis</i> (Appana <i>et al.</i> 2013) as a detection reagent using an ELISA.		
Flow Cytometry	Use 10µl of the suggested working dilution to label 1×10^6 cells in 100μ l		
References	 Hasvold, H.J. <i>et al.</i> (2002) <i>In vitro</i> responses to purified protein derivate of caprine T lymphocytes following vaccination with live strains of <i>Mycobacterium avium</i> subsp <i>paratuberculosis</i>. <u>Vet Immunol Immunopathol. 90 (1-2): 79-89.</u> Mwangi, W. <i>et al.</i> (2002) DNA-encoded fetal liver tyrosine kinase 3 ligand and granulocyte macrophage-colony-stimulating factor increase dendritic cell recruitment to the inoculation site and enhance antigen-specific CD4⁺ T cell responses induced by DNA vaccination of outbred animals. <u>J Immunol. 169 (7): 3837-46.</u> Pedersen, L.G. <i>et al.</i> (2002) Identification of monoclonal antibodies that cross-react with cytokines from different animal species. <u>Vet Immunol Immunopathol. 88 (3-4): 111-22.</u> 		

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Further Reading	1. Rhodes, S. <i>et al.</i> (2000) Distinct response kinetics of gamma interferon and interleukin-4 in bovine tuberculosis. <u>Infect Immun. 68:5393-400.</u>
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at
	-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for
	short term use (up to 4 weeks) and store the remaining aliquots at -20°C.
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in
	frost-free freezers is not recommended. This product is photosensitive and should be
	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. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.
Guarantee	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. 12 months from date of despatch
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MOUSE IgG1 NEGATIVE CONTROL: Alexa Fluor® 647 (MCA928A647)

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