

Datasheet: MCA1783PE

BATCH NUMBER 168756

Description:	MOUSE ANTI BOVINE INTERFERON GAMMA:RPE
Specificity:	IFN GAMMA
Other names:	INTERFERON GAMMA
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	CC302
Isotype:	IgG1
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 www.bio-rad-antibodies.com/protocols.

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

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 permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended for this purpose. For equine samples we recommend [MCA1783E](#).

Target Species	Bovine
Species Cross Reactivity	<p>Reacts with: Human, Pig, Dog, Horse, Sheep, Goat, Dolphin, Ferret, Mink, Fin Whale, Rabbit</p> <p>Based on sequence similarity, is expected to react with: Mustelid</p> <p>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.</p>
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized
Reconstitution	Reconstitute with 1 ml distilled water

Max Ex/Em	Fluorophore RPE 488nm laser	Excitation Max (nm) 496	Emission Max (nm) 578
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% sodium azide (NaN ₃)		
Stabilisers	1% bovine serum albumin 5% sucrose		
External Database Links	UniProt: P07353 Related reagents Entrez Gene: 281237 IFNG Related reagents		
RRID	AB_324003		
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.		
Specificity	<p>Mouse anti Bovine IFN-γ 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. IFNγ is predominantly secreted by activated T lymphocytes in response to specific mitogens as a result of infection (Rhodes et al. 2000).</p> <p>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 et al. 2002). Mouse anti Bovine IFNγ 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 et al. 2013) as a detection reagent using an ELISA.</p>		
Flow Cytometry	Use 10μl of the suggested working dilution to label 1x10 ⁶ cells in 100μl		
References	<ol style="list-style-type: none"> 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>. Vet Immunol Immunopathol. 90 (1-2): 79-89. 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. J Immunol. 169 (7): 3837-46. Pedersen, L.G. <i>et al.</i> (2002) Identification of monoclonal antibodies that cross-react with 		

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Further Reading 1. Rhodes, S. *et al.* (2000) Distinct response kinetics of gamma interferon and interleukin-4 in bovine tuberculosis. [Infect Immun. 68:5393-400.](#)

Storage 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 micro-centrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #20487 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1783PE>

Regulatory For research purposes only

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Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

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