

Datasheet: MCA1783PE

### **BATCH NUMBER 1608**

Description:	MOUSE ANTI BOVINE INTERFERON GAMMA:RPE
Specificity:	IFN GAMMA
Other names:	INTERFERON GAMMA
Format:	RPE
<b>Product Type:</b>	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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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. Bio-Rad recommend the use of Leucoperm $^{\text{TM}}$  (Product Code <u>BUF09</u>) for this purpose.

### For use on Equine samples Bio-Rad recommend MCA1783F

Ferret, Mink, Fin Whale, lid veen species. Cross eviewed publications or references indicated for
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Reconstitution	Reconstitute with 1 n					
Max Ex/Em	Fluorophore RPE 488nm laser	Excitation Max (nm) 496	Emission Max (nn	n)		
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 5% Sucrose					
External Database Links	Entrez Gene:	ed reagents Related reagents				
RRID	AB 324003	rtelated reagents				
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.					
Specificity	<b>Mouse anti Bovine IFNγ antibody, clone CC302,</b> 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).					
	Mouse anti bovine $\gamma$ interferon antibody, clone CC302 has been demonstrated to be reactive to a number of mammalian species including human, sheep, dog, pig, goat and mink ( <u>Pedersen et al. 2002</u> ). Mouse anti Bovine IFN $\gamma$ antibody, clone CC302 has been used successfully for the evaluation of $\gamma$ interferon levels in the sera of calves naturally infected with <i>M. avium.</i> subsp <i>paratuberculosis</i> ( <u>Appana et al. 2013</u> ) as a detection reagent using an ELISA.					
Flow Cytometry	Use 10ul of the sugg	ested working dilution	to label 1x10 <sup>6</sup> cells	in 100ul		
References	lymphocytes following paratuberculosis. Vet 2. Mwangi, W. et al. (granulocyte macroph	g vaccination with live Immunol Immunopath (2002) DNA-encoded for age-colony-stimulating	strains of <i>Mycobac</i> ol. 90 (1-2): 79-89. etal liver tyrosine ki factor increase de	,		

- vaccination of outbred animals. J Immunol. 169 (7): 3837-46.
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### **Further Reading**

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#### **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 microcentrifugation before use.

#### Guarantee

12 months from date of despatch

#### **Health And Safety**

Material Safety Datasheet documentation #20487 available at:

Information <a href="https://www.bio-rad-antibodies.com/SDS/MCA1783PE">https://www.bio-rad-antibodies.com/SDS/MCA1783PE</a>

20487

**Regulatory** For research purposes only

# Related Products

# **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

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 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

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