

## Datasheet: MCA1783B

**BATCH NUMBER 1711**

<b>Description:</b>	MOUSE ANTI BOVINE INTERFERON GAMMA:Biotin
<b>Specificity:</b>	IFN GAMMA
<b>Other names:</b>	INTERFERON GAMMA
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CC302
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.25 mg

## 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
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			5ug/ml
Western Blotting			▪	

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 using appropriate negative/positive controls.

### Target Species

Bovine

### Species Cross Reactivity

Reacts with: Human, Pig, Dog, Horse, Sheep, Goat, Dolphin, Ferret, Mink, Fin Whale, Rabbit

Based on sequence similarity, is expected to react with: Mustelid

**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.

### Product Form

Purified IgG conjugated to Biotin - liquid

### Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture

supernatant

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**Buffer Solution** Phosphate buffered saline

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**Preservative Stabilisers** 0.09% Sodium Azide

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**Approx. Protein Concentrations** IgG concentration 0.5 mg/ml

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**External Database Links**

**UniProt:**  
[P07353](#)   [Related reagents](#)

**Entrez Gene:**  
[281237](#) IFNG   [Related reagents](#)

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**RRID** AB\_324374

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**Fusion Partners** Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.

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**Specificity** **Mouse anti Bovine IFN $\gamma$  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. IFN $\gamma$  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 ([Pedersen et al. 2002](#)). 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 *M. avium* subsp *paratuberculosis* ([Appana et al. 2013](#)) as a detection reagent using an ELISA.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

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**ELISA** [Biotinylated mouse anti bovine IFN \$\gamma\$ , clone CC302](#), may be used as the detection reagent in a sandwich ELISA with [purified mouse anti bovine IFN \$\gamma\$ , clone CC330](#), as the capture reagent and [recombinant bovine IFN \$\gamma\$](#)  as the standard.

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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. 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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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1783B>

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**Regulatory**

For research purposes only

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