

Datasheet: MCA1783B

BATCH NUMBER 1711

| | |
|----------------------|---|
| Description: | MOUSE ANTI BOVINE INTERFERON GAMMA:Biotin |
| Specificity: | IFN GAMMA |
| Other names: | INTERFERON GAMMA |
| Format: | Biotin |
| Product Type: | Monoclonal Antibody |
| Clone: | CC302 |
| Isotype: | IgG1 |
| Quantity: | 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.

| | 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

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide

Approx. Protein Concentrations IgG concentration 0.5 mg/ml

External Database Links

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

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

RRID AB_324374

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

Specificity **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. IFN γ is predominantly secreted by activated T lymphocytes in response to specific mitogens as a result of infection ([Rhodes et al. 2000](#)).

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 IFN γ antibody, clone CC302 has been used successfully for the evaluation of γ 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.

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

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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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.

Guarantee

12 months from date of despatch

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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