**Description:** MOUSE ANTI BOVINE INTERFERON GAMMA

**Specificity:** IFN GAMMA

**Other names:** INTERFERON GAMMA

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** CC302

**Isotype:** IgG1

**Quantity:** 0.5 mg

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### 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).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry (1)</td>
<td></td>
<td>-</td>
<td></td>
<td>1/100 - 1/500</td>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Paraffin</td>
<td>-</td>
<td></td>
<td></td>
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<tr>
<td>ELISA</td>
<td></td>
<td>-</td>
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<tr>
<td>Immunoprecipitation</td>
<td></td>
<td>-</td>
<td></td>
<td></td>
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<tr>
<td>Western Blotting</td>
<td></td>
<td>-</td>
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</table>

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.

(1) **Membrane permeabilization is required for this application. Bio-Rad recommend the use of Leucoperm™ (Product Code BUF09) for this purpose.**

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### 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.
<table>
<thead>
<tr>
<th>Product Form</th>
<th>Purified IgG - liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparation</td>
<td>Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant</td>
</tr>
<tr>
<td>Buffer Solution</td>
<td>Phosphate buffered saline</td>
</tr>
<tr>
<td>Preservative Stabilisers</td>
<td>0.09% Sodium Azide (NaN₃)</td>
</tr>
<tr>
<td>Carrier Free</td>
<td>Yes</td>
</tr>
<tr>
<td>Approx. Protein Concentrations</td>
<td>IgG concentration 1.0 mg/ml</td>
</tr>
</tbody>
</table>

**External Database Links**

- **UniProt**: P07353 [Related reagents](#)
- **Entrez Gene**: 281237 IFNG [Related reagents](#)

**RRID**

AB_2123454

**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 IFNγ 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](#)).

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 *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 1x10^6 cells in 100ul.

**ELISA**

**Biotinylated mouse anti bovine IFNγ, clone CC302**, may be used as the detection reagent in a sandwich ELISA with **purified mouse anti bovine IFNγ, clone CC330**, as the capture reagent and **recombinant bovine IFNγ** as the standard.

**References**


<table>
<thead>
<tr>
<th>Further Reading</th>
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<tr>
<th>Storage</th>
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<tbody>
<tr>
<td>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.</td>
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<tr>
<th>Guarantee</th>
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<tbody>
<tr>
<td>12 months from date of despatch</td>
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<thead>
<tr>
<th>Health And Safety Information</th>
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<tbody>
<tr>
<td>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1783">https://www.bio-rad-antibodies.com/SDS/MCA1783</a></td>
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<tr>
<th>Regulatory</th>
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<tbody>
<tr>
<td>For research purposes only</td>
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<table>
<thead>
<tr>
<th>Related Products</th>
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<tbody>
<tr>
<td><strong>Recommended Secondary Antibodies</strong></td>
</tr>
<tr>
<td>Rabbit Anti Mouse IgG (STAR12...)</td>
</tr>
<tr>
<td>Goat Anti Mouse IgG IgA IgM (STAR87...)</td>
</tr>
<tr>
<td>Goat Anti Mouse IgG (STAR76...)</td>
</tr>
<tr>
<td>Rabbit Anti Mouse IgG (STAR13...)</td>
</tr>
<tr>
<td>Goat Anti Mouse IgG (STAR70...)</td>
</tr>
<tr>
<td>Goat Anti Mouse IgG (H/L) (STAR117...)</td>
</tr>
<tr>
<td>Rabbit Anti Mouse IgG (STAR9...)</td>
</tr>
<tr>
<td>Goat Anti Mouse IgG (STAR77...)</td>
</tr>
<tr>
<td>Goat Anti Mouse IgG (Fc) (STAR120...)</td>
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Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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