

## Datasheet: MCA1783A647

<b>Description:</b>	MOUSE ANTI BOVINE INTERFERON GAMMA:Alexa Fluor®647
<b>Specificity:</b>	IFN GAMMA
<b>Other names:</b>	INTERFERON GAMMA
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CC302
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS/1ml

## Product Details

**RRID** AB\_2123327

### 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
Flow Cytometry (1)	■			1/10 - 1/100

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.**

**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.

**Product Form** Purified IgG conjugated to Alexa Fluor® 647 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665

**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<sub>3</sub>)  
**Stabilisers** 1% Bovine Serum Albumin

**Approx. Protein** IgG concentration 0.05mg/ml

## Concentrations

### External Database Links

#### UniProt:

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

#### Entrez Gene:

[281237](#) IFNG [Related reagents](#)

### 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 $\gamma$  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](#)). Clone CC302 has been successfully used 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.

### Flow Cytometry

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

### References

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#### Further Reading

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#### Storage

Store at +4°C or at -20°C if preferred.  
 Storage in frost-free freezers is not recommended.  
 This product should be stored undiluted. This product is photosensitive and should be protected from light.  
 Avoid repeated freezing and thawing as this may denature the antibody.

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#### Guarantee

18 months from date of despatch.

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#### Acknowledgements

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#### Health And Safety

Material Safety Datasheet documentation #10041 available at:  
 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

## Information

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### Regulatory

For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

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