Datasheet: MCA2334A488

**Description:** MOUSE ANTI BOVINE TNF ALPHA:Alexa Fluor® 488

**Specificity:** TNF ALPHA

**Format:** ALEXA FLUOR® 488

**Product Type:** Monoclonal Antibody

**Clone:** CC327

**Isotype:** IgG2b

**Quantity:** 100 TESTS/1ml

### 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).

<table>
<thead>
<tr>
<th>Suggested Dilution</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry (1)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1/10 - 1/50</td>
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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 permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code BUF09) for this purpose.*

**Target Species**

Bovine

**Species Cross Reactivity**

Reacts with: Fallow deer

*N.B.* Antibody reactivity and working conditions may vary between species.

**Product Form**

Purified IgG conjugated to Alexa Fluor® 488 - liquid

**Max Ex/Em**

<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexa Fluor®488</td>
<td>495</td>
<td>519</td>
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</tbody>
</table>

**Preparation**

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide

1% Bovine Serum Albumin

**Approx. Protein Concentrations**

IgG concentration 0.05 mg/ml

**Immunogen**

Recombinant bovine TNF alpha.
Related reagents

Entrez Gene:

280943  TNF  Related reagents

Synonyms  

TNFA, TNFSF2

Specificity  

Mouse anti Bovine TNF alpha antibody, clone CC327 recognizes bovine TNF alpha, a 17.5 kDa cytokine, expressed by many different stimulated cell types including monocytes, macrophages, endothelial cells, fibroblasts and both T and B-lymphocytes.

The production of TNF alpha is induced by a variety of factors, dependant upon cell type and includes bacterial toxins, IL-1, PDGF, IFN-beta, NGF, Oncostatin M and viral infections. The presence of TNF alpha is responsible for diverse immunomodulatory, anti-tumour and toxic effects and under certain conditions is also capable of self-stimulation and inhibition.

Flow Cytometry  

Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul.

References  

13. Maggioli, M.F. et al. (2016) Increased TNF-α/IFN-γ/IL-2 and Decreased TNF-α/IFN-γ Production by Central Memory T Cells Are Associated with Protective Responses against Bovine Tuberculosis
Following BCG Vaccination. Front Immunol. 7: 421.

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. This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life
18 months from date of despatch.

Acknowledgements
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Health And Safety

Regulatory
For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL: Alexa Fluor® 488 (MCA691A488)