Datasheet: MCA1658

BATCH NUMBER 154759

**Product Details**

**Description:** MOUSE ANTI SHEEP INTERLEUKIN-1 BETA

**Specificity:** IL-1 BETA

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** 1D4

**Isotype:** IgG1

**Quantity:** 0.25 mg

**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>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Flow Cytometry (1)</td>
<td>✗</td>
<td></td>
<td></td>
<td>1/10</td>
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<tr>
<td>Immunohistology - Frozen</td>
<td>✗</td>
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<tr>
<td>Immunohistology - Paraffin</td>
<td>✗</td>
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<tr>
<td>ELISA</td>
<td>✗</td>
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<tr>
<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product 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**

Sheep

**Species Cross Reactivity**

Reacts with: Goat, Bovine, Horse

**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 - liquid
Buffer Solution
Phosphate buffered saline

Preservative Stabilisers
0.09% Sodium Azide

Approx. Protein Concentrations
IgG concentration 1.0 mg/ml

Immunogen
Recombinant ovine IL-1 Beta

External Database Links
UniProt: P21621 Related reagents
Entrez Gene: 443539 IL-1B Related reagents

RRID
AB_322126

Specificity
Mouse anti Sheep Interleukin-1 beta antibody, clone 1D4 recognizes ovine interleukin-1 beta, and shows no cross-reactivity with ovine IL-6, IL-8, TNF alpha or MCP-1.

Mouse anti Sheep Interleukin-1 beta antibody, clone 1D4 demonstrates partial neutralizing activity of ovine IL-1 beta.

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

ELISA
Mouse anti Interleukin-1 beta antibody, clone 1D4 may be used as a capture antibody in a bovine IL-1 beta sandwich ELISA together with Rabbit anti Bovine interleukin-1β antibody (AHP851B) as the detection reagent for evaluation of IL-1β levels in bovine samples together with recombinant Bovine interleukin-1β (PBP008) used as standards. Alternatively, Mouse anti Interleukin-1 beta antibody, clone 1D4 can be used as a capture reagent together with Rabbit anti Ovine interleukin-1β antibody (AHP423) as a detection reagent for the evaluation of IL-1β levels in ovine, bovine or caprine samples, again utilizing recombinant bovine IL-1&beta (PBP008) as an internal standard.

References


**Further Reading**

1. Rothel, J.S. et al. (1997) Analysis of ovine IL-1 beta production in vivo and in vitro by

**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/MCA1658

**Regulatory**

For research purposes only

**Recommended Products**

**Recommended Secondary Antibodies**

- Rabbit Anti Mouse IgG (STAR12...) **RPE**
- Rabbit Anti Mouse IgG (STAR13...) **HRP**
- Goat Anti Mouse IgG (H/L) (STAR117...) **FITC**
- Rabbit Anti Mouse IgG (STAR9...) **FITC**

**Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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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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