**Datasheet: MCA1658**

**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).

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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<td>Flow Cytometry (1)</td>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>ELISA</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.

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

ELISA

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

References

11. Leite, F. et al. (2005) Incubation of bovine PMNs with conditioned medium from BHV-1


**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.

**Shelf Life**

18 months from date of despatch.

**Health And Safety**


**Regulatory**

For research purposes only

**Related Products**

**Recommended Secondary Antibodies**

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

**Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL (MCA928)