

## Datasheet: MCA1660

<b>Description:</b>	MOUSE ANTI SHEEP INTERLEUKIN-8
<b>Specificity:</b>	IL-8
<b>Other names:</b>	CXCL8
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	8M6
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.25 mg

## 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).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	▪			1/10
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			5ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			
Functional Assays (2)	▪			

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 permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended for this purpose.**

(2) **Removal of the preservative is recommended prior to use in functional assays.**

### Target Species

Sheep

### Species Cross Reactivity

Reacts with: Dog, Rabbit, Bovine, Pig, Mustelid, Ferret, Mink, Cat

**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.

<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Antibody purified from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% sodium azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Recombinant ovine IL-8.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P36925</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">443418</a>    IL8    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CXCL8
<b>RRID</b>	AB_322152
<b>Specificity</b>	<p><b>Mouse anti Ovine Interleukin-8 antibody, clone 8M6</b> recognizes ovine interleukin-8 (IL-8), also known as C-X-C motif chemokine 8. IL-8 is a 79 amino acid ~9-11 kDa chemoattractant for neutrophils, basophils and T-cells. IL-8 is produced by several cell types including neutrophils, monocytes and macrophages in response to inflammatory stimulation. Mouse anti ovine Interleukin-8 antibody, clone 8M6 shows no cross-reactivity with ovine IL-1 beta, IL-6, MCP-1 or TNF alpha.</p> <p>Responses to infectious stimuli may vary among ovine species, the response to <i>Mannheimia haemolytica</i>, a causative agent of pneumonia, peritonitis and gangrenous mastitis in ovids, is exaggerated in Bighorn sheep (<i>Ovis canadensis</i>) compared to domestic sheep (<i>Ovis aries</i>) with significantly elevated IL-8 levels in response to infection (<a href="#">Herndon et al. 2010</a>).</p> <p>Mouse anti ovine interleukin-8 antibody, clone 8M6 has been utilized to identify cells and cell types expressing IL-8 in inflamed porcine tissue (<a href="#">Laursen et al. 2014</a>) showing here also that neutrophils are the predominant cell type expressing IL-8 whilst epithelial and endothelial cells in the vicinity of inflammatory lesions also express the cytokine. Clone 8M6 neutralizes the bioactivity of ovine IL-8.</p> <p>Mouse anti Ovine Interleukin-8 antibody, clone 8M6 has been used in conjunction with Rabbit anti Sheep Interleukin-8 antibody (<a href="#">AHP425</a>) for the development of a sensitive ELISA to measure IL-8 concentrations in bovine samples (<a href="#">Cronin et al. 2015</a>).</p>
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100µl

## ELISA

Mouse anti Sheep interleukin-8 antibody, clone 8M6 may be used in combination with [AHP425](#) in sandwich ELISA assays for ovine IL-8.

## References

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7. Bonnefont, C.M. *et al.* (2012) Genetic susceptibility to *S. aureus* mastitis in sheep: differential expression of mammary epithelial cells in response to live bacteria or supernatant. [Physiol Genomics. 44: 403-16.](#)
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16. Stinson LF *et al.* (2014) Effects of cytokine-suppressive anti-inflammatory drugs on inflammatory activation in *ex vivo* human and ovine fetal membranes. [Reproduction. 147 \(3\): 313-20.](#)
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**Storage** 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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1660>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [FITC](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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