

Datasheet: MCA1660

Description:	MOUSE ANTI SHEEP INTERLEUKIN-8
Specificity:	IL-8
Other names:	CXCL8
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	8M6
Isotype:	IgG2a
Quantity:	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.

	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. Bio-Rad recommend the use of Leucoperm® (Product Code [BUF09A](#)) for this purpose.**

(2) Removal of the preservative is recommended prior to use in functional assays - Bio-Rad recommend the use of a [Slide-A-Lyser® dialysis cassette](#) for this purpose.

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.
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

Immunogen Recombinant ovine IL-8.

External Database Links

UniProt:

[P36925](#) [Related reagents](#)

Entrez Gene:

[443418](#) IL8 [Related reagents](#)

Synonyms CXCL8

RRID AB_322152

Specificity

Mouse anti Ovine Interleukin-8 antibody, clone 8M6 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.

Responses to infectious stimuli may vary among ovine species, the response to *Mannheimia haemolytica*, a causative agent of pneumonia, peritonitis and gangrenous mastitis in ovids, is exaggerated in Bighorn sheep (*Ovis canadensis*) compared to domestic sheep (*Ovis aries*) with significantly elevated IL-8 levels in response to infection ([Herndon et al. 2010](#)).

Mouse anti ovine interleukin-8 antibody, clone 8M6 has been utilized to identify cells and cell types expressing IL-8 in inflamed porcine tissue ([Laurson et al. 2014](#)) 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. Mouse anti Ovine Interleukin-8 antibody, clone 8M6 has been used in conjunction with Rabbit anti Sheep Interleukin-8 antibody ([AHP425](#)) for the development of a sensitive ELISA to measure IL-8 concentrations in bovine samples ([Cronin et al. 2015](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

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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- porcine peripheral blood phagocytes. [Vet Immunol Immunopathol. 124: 367-78.](#)
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 20. Melville, J.M. *et al.* (2017) Human amnion epithelial cells modulate the inflammatory response to ventilation in preterm lambs. [PLoS One. 12 \(3\): e0173572.](#)

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:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

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

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

Recommended Negative Controls

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

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'M365588:200529'

Printed on 11 Aug 2020

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