

Datasheet: MCA6013GA

Description:	MOUSE ANTI SHEEP INTERLEUKIN-8
Specificity:	IL-8
Other names:	CXCL8
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2C9
Isotype:	IgG1
Quantity:	0.1 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			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA	■			1/5,000 - 1/50,000
Immunoprecipitation			■	
Western Blotting			■	

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.

Target Species	Sheep
Product Form	Purified IgG - liquid
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 (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant sheep IL-8

**External Database
Links**

UniProt:

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

Entrez Gene:

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

Synonyms

CXCL8

Fusion Partners

Spleen cells from immunised Balb/c mice were fused with cells of the NSO myeloma cell line

Specificity

Mouse anti Sheep interleukin-8 antibody, clone 2C9, recognizes ovine interleukin-8 (IL-8), also known as C-X-C motif chemokine 8. IL-8 is a 101 amino acid ~16 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 Sheep interleukin-8 antibody, clone 2C9 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 Sheep interleukin-8 antibody, clone 2C9, has been shown to compete with clone 8M6 ([MCA1660](#)) for binding of recombinant ovine IL-8 by ELISA, suggesting that the two clones recognize the same or a closely-related epitope.

Flow Cytometry

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

ELISA

This antibody may be used in combination with [AHP425](#) in sandwich ELISA assays for ovine IL-8.

Further Reading

1. Redondo, E. *et al.* (2013) Induction of Interleukin-8 and Interleukin-12 in Neonatal Ovine Lung Following Experimental Inoculation of Bovine Respiratory Syncytial Virus. [J Comp Pathol. 150: 434-48.](#)
2. 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.](#)
3. Herndon, C.N. *et al.* (2010) Differential expression of interleukin-8 by polymorphonuclear leukocytes of two closely related species, *Ovis canadensis* and *Ovis aries*, in response to *Mannheimia haemolytica* infection. [Infect Immun. 78: 3578-84.](#)

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
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Useful Reagents

[RABBIT ANTI SHEEP INTERLEUKIN-8 \(AHP425\)](#)

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