Datasheet: MCA2111B

BATCH NUMBER 172392

Description:	MOUSE ANTI BOVINE INTERLEUKIN-10:Biotin
Specificity:	IL-10
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	CC320
Isotype:	IgG1
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
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			2ug/ml - 5ug/ml
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

Bovine

Species Cross Reactivity

Reacts with: Horse, Sheep, Goat

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 conjugated to Biotin - 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)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Plasmid cDNA encoding bovine IL-10.
External Database Links	**UniProt:** P43480 Related reagents **Entrez Gene:** 281246 IL10 Related reagents
RRID	AB_2125237
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse sp2/0 myeloma cell line.
Specificity	**Mouse anti Bovine Interleukin-10 antibody, clone CC320** recognizes bovine IL-10. Mouse anti Bovine Interleukin-10 antibody, clone CC320 has been shown to neutralize the activity of bovine IL-10 as measured by the inhibition of the inhibitory activity of IL-10 on IFN gamma synthesis (Buza *et al.* 2004).
ELISA	Biotin conjugated Mouse anti Bovine interleukin-10 antibody, clone CC320 may be used as detection reagent in a sandwich ELISA assay for bovine IL-10 with MCA2110 as capture reagent. (Bannermann *et al.* 2004).
References	1. Kwong, L.S. *et al.* (2002) Development of an ELISA for bovine IL-10. Vet Immunol Immunopathol. 85 (3-4): 213-23. 2. Buza JJ *et al.* (2004) Neutralization of interleukin-10 significantly enhances gamma interferon expression in peripheral blood by stimulation with Johnin purified protein derivative and by infection with *Mycobacterium avium* subsp. *paratuberculosis* in experimentally infected cattle with paratuberculosis. Infect Immun. 72 (4): 2425-8. 3. Bannerman, D.D. *et al.* (2004) Characterization of the bovine innate immune response to intramammary infection with *Klebsiella pneumoniae*. J Dairy Sci. 87: 2420-32. 4. Bannerman, D.D. *et al.* (2004) *Escherichia coli* and *Staphylococcus aureus* elicit differential innate immune responses following intramammary infection. Clin Diagn Lab Immunol. 11: 463-72. 5. Abbott, J.R. *et al.* (2005) Rapid and long-term disappearance of CD4+ T lymphocyte responses specific for *Anaplasma marginale* major surface protein-2 (MSP2) in MSP2 vaccinates following challenge with live *A. marginale*. J Immunol. 174: 6702-15. 6. Berger, S.T. and Griffin, F.T. (2006) A comparison of ovine monocyte-derived macrophage function following infection with *Mycobacterium avium* ssp. *avium* and *Mycobacterium avium* ssp. *paratuberculosis*. Immunol Cell Biol. 84: 349-56.

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Further Reading

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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. This product is photosensitive and should be protected from light.

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/MCA2111B

Regulatory

For research purposes only

Product inquiries: **www.bio-rad-antibodies.com/technical-support**

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