Datasheet: MCA6449GA

Description:	MOUSE ANTI DOG CD20
Specificity:	CD20
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	NCD1.2
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	▪			1/25 - 1/100

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	Dog
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
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Peptide NCDPANPSEKNSLSIQYCGSIR from Canine CD20
Specificity	**Mouse anti Dog CD20 antibody, clone NCD1.2** recognizes dog CD20.

	CD20 is an atypical tetraspanin expressed on B cells and is involved in B cell activation, proliferation, and differentiation. Similar to its expression in humans, canine CD20 is found on most mature B cells and is an important target for diagnosing and treating B-cell malignancies such as lymphoma. The extracellular domains of canine CD20 differ significantly in sequence and antigenicity from human CD20, which prevents most therapeutic anti human CD20 antibodies from binding to the canine protein. Mouse anti Dog CD20, clone NCD1.2, has been shown to detect CD20 on canine B cells, medium-sized B-cell lymphoma, and diffuse large B-cell lymphoma (DLBCL) (Jain *et al.* 2016). Studies using HDX-MS have also identified the dominant paratope in CD20 binding by NCD1.2, providing structural insights for antibody optimization for lymphoma treatment (Uhrik *et al.* 2021).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul
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.
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/MCA6449GA
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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