

Datasheet: MCA6400GA

BATCH NUMBER 162826

Description:	MOUSE ANTI DOG CD94
Specificity:	CD94
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	8H10
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	▪			1/50 - 1/200

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
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	CD94-mulG2a fusion protein

External Database**Links****UniProt:**[Q38HS3](#)[Related reagents](#)**Entrez Gene:**[611360](#)

KLRD1

[Related reagents](#)

Synonyms

CD94

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the P3X63Ag8.653 myeloma cell line

Specificity

Mouse anti Dog CD94 antibody, clone 8H10 recognizes canine CD94, also known as KLRD1 (Killer cell lectin like receptor D1).

CD94 is expressed on natural killer (NK) cells and on natural killer-like T (NKT) cells. In humans, a range of receptors that can identify and modulate NK cell function have been well described. Among them CD94 which associates with members from the NKG2 family to form activating or inhibitory heterodimers. It is not established whether the same interaction happens in dogs. Canine NK cells remain poorly characterized with mouse anti dog CD94 being one of few markers available to detect them ([Graves et al. 2019](#)).

Mouse anti dog CD94 antibody, clone 8H10 will detect approx. 7.7% (NK cell range in dogs: 2.5% – 15%) ([Graves et al. 2019](#), [Kisseberth and Lee, 2021](#)) of freshly isolated canine PBMC and has been used for magnetic bead cell isolation ([Graves et al. 2019](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul

References

1. Abrams, K. *et al.* (2020) CD94 *Ex Vivo* Cultures in a Bone Marrow Transplantation Setting. [Transplant Direct. 6 \(12\): e632.](#)
2. Parker, M.H. *et al.* (2021) Anti-ICOS mAb Targets Pathogenic IL-17A-expressing Cells in Canine Model of Chronic GVHD. [Transplantation. 105 \(5\): 1008-1016.](#)

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/MCA6400GA>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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