Datasheet: MCA6400A647

BATCH NUMBER 168757

Description:	MOUSE ANTI DOG CD94:Alexa Fluor® 647
Specificity:	CD94
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	8H10
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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	▪			Neat - 1/10

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 conjugated to Alexa Fluor®647 - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
Alexa Fluor®647	650	665

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)
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.05 mg/ml

Immunogen	CD94-muIgG2a 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 1x10^6 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
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA6400A647
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 (MCA928A647)

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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