

Datasheet: MCA6400A647

BATCH NUMBER 173938

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-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. <i>et al.</i> (2020) CD94 <i>Ex Vivo</i> Cultures in a Bone Marrow Transplantation Setting. Transplant Direct. 6 (12): e632. 2. Parker, M.H. <i>et al.</i> (2021) Anti-ICOS mAb Targets Pathogenic IL-17A-expressing Cells in Canine Model of Chronic GVHD. Transplantation. 105 (5): 1008-1016. 3. Foos, K.M. <i>et al.</i> (2026) Generation of functional canine TIL products for solid tumors. Front Immunol. 17: 1810955. 4. Blockeel, A. <i>et al.</i> (2025) CD94 as a novel marker for immunophenotyping of leukemia and lymphoma in dogs. Front Vet Sci. 12: 1716800.
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
'M419177:230605'

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