

Datasheet: MCA4634GA

Description:	MOUSE ANTI RAT CD252
Specificity:	CD252
Other names:	OX40 LIGAND
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	ATM-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)	■			

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.

(1) **Bio-Rad recommends a three layer detection system using [STAR11B](#) followed by [STAR4A](#), to enhance the staining of CD252 with MCA4634.**

Target Species	Rat
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	ACI-S1 rat T-cell lymphoma cell line.
External Database Links	UniProt: Q9Z2P3 Related reagents

Entrez Gene:[89814](#) Tnfsf4 [Related reagents](#)

Synonyms	Ox40l, Txgp1
Specificity	Mouse anti Rat CD252 antibody, clone ATM-2 recognizes rat CD252, otherwise known as OX40L or CD134L, a ~22 kDa type II transmembrane glycoprotein and member of the TNF superfamily, expressed by antigen-presenting cells including activated dendritic cells and B cells, and also by vascular endothelium. The interaction of CD252 with its receptor OX40/CD134, acts as a co-stimulator of T cell activation, proliferation and both Th1 and Th2 cytokine production, and is also important in activated B cell proliferation and secretion of immunoglobulins (Igs). CD252/OX40 interaction has been implicated in HTLV-1 associated diseases including myelopathy and adult T cell leukaemia, and also with the autoimmune diseases rheumatoid arthritis and inflammatory bowel disease. Mouse anti Rat CD252 antibody, clone ATM-2 has been shown to block the co-stimulatory activity of CD252 on rat T cell proliferation.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	1. Yuan, X. <i>et al.</i> (2003) The role of the CD134-CD134 ligand costimulatory pathway in alloimmune responses <i>in vivo</i>. J Immunol. 170 (6): 2949-55. 2. Macphée, I.A. <i>et al.</i> (2006) Blockade of OX40-ligand after initial triggering of the T helper 2 response inhibits mercuric chloride-induced autoimmunity. Immunology. 117 (3): 402-8.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Human Anti Mouse IgG1 (HCA036...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

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