

Datasheet: MCA2568A647T

Description:	MOUSE ANTI CAT CD134:Alexa Fluor® 647
Specificity:	CD134
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	7D6
Isotype:	IgG1
Quantity:	25 TESTS/0.25ml

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 - 1/5

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

Cat

Species Cross Reactivity

Does not react with: Mouse
 Reacts weakly with: Human

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

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 G 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 0.05mg/ml
Immunogen	CHO-derived feline CD134-Fc fusion protein.
RRID	AB_1100687
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the NS0 mouse myeloma cell line.
Specificity	<p>Mouse anti Cat CD134 antibody, clone 7D6 recognizes feline CD134, otherwise known as OX40, a 43 kDa type I membrane protein and member of the tumor necrosis factor receptor superfamily, expressed predominantly by CD4⁺ activated T cells, and a key regulator of T cell-dependent immune responses.</p> <p>CD134 has been identified as the receptor for the OX40 ligand, CD252, expressed by activated B cells, acting as a co-stimulatory signal for the stimulation and secretion of immunoglobulins. CD134 has also been identified as a binding receptor for Feline Immunodeficiency Virus (FIV), acting along with CXC chemokine receptor 4 (CXCR4) to facilitate the entry of the virus into CD4⁺ primary target cells.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Willett, B.J. <i>et al.</i> (2007) Probing the interaction between feline immunodeficiency virus and CD134 by using the novel monoclonal antibody 7D6 and the CD134 (Ox40) ligand. J Virol. 81: 9665-79. 2. Willett, B.J. <i>et al.</i> (2009) Enforced covalent trimerisation of soluble feline CD134 (OX40)-ligand generates a functional antagonist of feline immunodeficiency virus. Mol Immunol. 46: 1020-30. 3. McDonnell, S.J. <i>et al.</i> (2012) Pharmacologic reactivation of latent feline immunodeficiency virus ex vivo in peripheral CD4⁺ T-lymphocytes. Virus Res. 170 (1-2): 174-9.
Further Reading	<ol style="list-style-type: none"> 1. Stüber, E. & Strober, W. (1996) The T cell-B cell interaction via OX40-OX40L is necessary for the T cell-dependent humoral immune response. J Exp Med. 183 (3): 979-89. 2. de Parseval, A. <i>et al.</i> (2004) Feline immunodeficiency virus targets activated CD4⁺ T cells by using CD134 as a binding receptor. Proc Natl Acad Sci U S A. 101 (35): 13044-9.
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in</p>

frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee 12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA1209A647\)](#)

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

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