

Datasheet: MCA2568GA

Description:	MOUSE ANTI CAT CD134
Specificity:	CD134
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	7D6
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	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1.0ug/ml

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 - 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 (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	CHO-derived feline CD134-Fc fusion protein.
RRID	AB_808380
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.
Western Blotting	MCA2568GA detects a band of approximately 43kDa.
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	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 #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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

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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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