

## Datasheet: MCA2568F

<b>Description:</b>	MOUSE ANTI CAT CD134:FITC
<b>Specificity:</b>	CD134
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	7D6
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Cat
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<b>Species Cross Reactivity</b>	Does not react with:Mouse Reacts weakly with:Human <b>N.B.</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.
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<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
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Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525

<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.
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<b>Buffer Solution</b>	Phosphate buffered saline
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<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1mg/ml
<b>Immunogen</b>	CHO-derived feline CD134-Fc fusion protein.
<b>RRID</b>	AB_2272129
<b>Fusion Partners</b>	Spleen cells from immunized Balb/c mice were fused with cells of the NS0 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Cat CD134 antibody, clone 7D6</b> 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<sup>+</sup> 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<sup>+</sup> primary target cells.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. 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. <a href="#">Mol Immunol. 46: 1020-30.</a></li> <li>2. McDonnell, S.J. <i>et al.</i> (2012) Pharmacologic reactivation of latent feline immunodeficiency virus ex vivo in peripheral CD4<sup>+</sup> T-lymphocytes. <a href="#">Virus Res. 170 (1-2): 174-9.</a></li> </ol>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. Stüber, E. &amp; Strober, W. (1996) The T cell-B cell interaction via OX40-OX40L is necessary for the T cell-dependent humoral immune response. <a href="#">J Exp Med. 183 (3): 979-89.</a></li> <li>2. de Parseval, A. <i>et al.</i> (2004) Feline immunodeficiency virus targets activated CD4<sup>+</sup> T cells by using CD134 as a binding receptor. <a href="#">Proc Natl Acad Sci U S A. 101 (35): 13044-9.</a></li> </ol>
<b>Storage</b>	<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 frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>

<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2568F">https://www.bio-rad-antibodies.com/SDS/MCA2568F</a> 10041
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)  
[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA1209F\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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)  
'M385458:210513'

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