

Datasheet: MCA2568A647

**BATCH NUMBER 150869**

<b>Description:</b>	MOUSE ANTI CAT CD134:Alexa Fluor® 647
<b>Specificity:</b>	CD134
<b>Other names:</b>	OX40
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	7D6
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](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.

### 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

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05mg/ml
<b>Immunogen</b>	CHO-derived feline CD134-Fc fusion protein.
<b>RRID</b>	AB_2207244
<b>Fusion Partners</b>	Spleen cells from immunised 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> (2007) Probing the interaction between feline immunodeficiency virus and CD134 by using the novel monoclonal antibody 7D6 and the CD134 (Ox40) ligand. <a href="#">J Virol. 81: 9665-79.</a></li> <li>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. <a href="#">Mol Immunol. 46: 1020-30.</a></li> <li>3. McDonnel, 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>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. This product is photosensitive and should be</p>

protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**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/MCA2568A647>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

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

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

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**Worldwide**

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Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

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Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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