

Datasheet: MCA2568A647T

**BATCH NUMBER 169687**

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|----------------------|---------------------------------------|
| <b>Description:</b>  | MOUSE ANTI CAT CD134:Alexa Fluor® 647 |
| <b>Specificity:</b>  | CD134                                 |
| <b>Format:</b>       | ALEXA FLUOR® 647                      |
| <b>Product Type:</b> | Monoclonal Antibody                   |
| <b>Clone:</b>        | 7D6                                   |
| <b>Isotype:</b>      | IgG1                                  |
| <b>Quantity:</b>     | 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](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> )<br>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_1100687                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <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</p>                                                                                                                                                                                                                                                                                                                      |

protected from light.

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|------------------|---------------------------------|
| <b>Guarantee</b> | 12 months from date of despatch |
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| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2568A647T">https://www.bio-rad-antibodies.com/SDS/MCA2568A647T</a> |
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|-------------------|----------------------------|
| <b>Regulatory</b> | 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 \(MCA1209A647\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M385823:210513'

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