

## Datasheet: MCA4718

<b>Description:</b>	HAMSTER ANTI MOUSE CD278
<b>Specificity:</b>	CD278
<b>Other names:</b>	ICOS
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	C398.4A
<b>Isotype:</b>	IgG
<b>Quantity:</b>	0.25 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	▪			1/5 - 1/10
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

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

Mouse

#### Species Cross Reactivity

Reacts with: Human, Rat, Pig

**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

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5mg/ml
<b>Immunogen</b>	Mouse T cell clone D10.G4.1.
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">Q9WVS0</a>    <a href="#">Related reagents</a></p> <p><a href="#">Q9Y6W8</a>    <a href="#">Related reagents</a></p> <p><a href="#">Q9R1T7</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">54167</a>    Icos    <a href="#">Related reagents</a></p> <p><a href="#">29851</a>    ICOS    <a href="#">Related reagents</a></p> <p><a href="#">64545</a>    Icos    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Ailim, AILIM
<b>RRID</b>	AB_2122713
<b>Specificity</b>	<b>Hamster anti Mouse CD278 antibody, clone C398.4A</b> recognizes CD278, also known as Inducible T cell costimulator or ICOS, a CD28-superfamily costimulatory molecule. It is expressed on activated T cells and resting memory T cells. It enhances all the basic T cell responses to a foreign antigen, namely proliferation, secretion of lymphokines and up-regulation of molecules that mediate cell-cell interaction. It is essential for the efficient interaction between B and T cells and is involved in antibody responses to T cell dependent antigens. It up-regulates the synthesis of interleukin-10, but not interleukin-2 and prevents the apoptosis of pre-activated T cells. Hamster anti Mouse CD278 antibody, clone C398.4A has been reported to costimulate T cell activation and proliferation <i>in vitro</i> .
<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. Redoglia, V. <i>et al.</i> (1996) Characterization of H4: a mouse T lymphocyte activation molecule functionally associated with the CD3/T cell receptor. <a href="#">Eur J Immunol. 26 (11): 2781-9.</a></li> <li>2. Sakthivel, P. <i>et al.</i> (2014) Attenuation of immune-mediated influenza pneumonia by targeting the inducible co-stimulator (ICOS) molecule on T cells. <a href="#">PLoS One. 9 (7): e100970.</a></li> <li>3. Weber, J.P. <i>et al.</i> (2015) ICOS maintains the T follicular helper cell phenotype by down-regulating Krüppel-like factor 2. <a href="#">J Exp Med. 212 (2): 217-33.</a></li> </ol>
<b>Storage</b>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended.

This product should be stored undiluted. 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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<b>Guarantee</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Hamster IgG (STAR104...) [DyLight@800](#), [FITC](#)

Goat Anti Hamster IgG (STAR79...) [Biotin](#), [FITC](#), [HRP](#)

### Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL \(MCA2356\)](#)

<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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Printed on 09 Feb 2021