

Datasheet: MCA6051GA

BATCH NUMBER 151767

Description:	HAMSTER ANTI MOUSE CD278
Specificity:	CD278
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	C398.4A
Isotype:	IgG
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	▪			1/5 - 1/10
Immunohistology - Frozen	▪			
Immunoprecipitation	▪			

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: Rat, 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

Buffer Solution

Phosphate buffered saline

Preservative

0.09% Sodium Azide (NaN₃)

Stabilisers

Approx. Protein Concentrations IgG concentration 0.5 mg/ml

Immunogen Mouse T cell clone D10.G4.1

External Database Links

UniProt:
[Q9WVS0](#) [Related reagents](#)

Entrez Gene:
[54167](#) Icos [Related reagents](#)

Synonyms Ailim

Specificity **Hamster anti Mouse CD278, clone C398.4A** recognizes CD278 also known as ICOS (inducible T cell co-stimulatory molecule) or H4. CD278 is a member of the CD28 family ([Hutloff *et al.* 1999](#)) which also contains the immune attenuator CTLA-4. CD278 expression is found following T cell activation ([Yoshinaga *et al.* 1999](#)) and is able to co-stimulate T cell proliferative responses. ICOS binds to ICOS ligand which is expressed on antigen presenting cells. This ICOS/ICOSL interaction activates PI3K/AKT, MAPK and NKFB signalling pathways in a manner distinct from that activated via CD28. In a larger focus ICOS signaling plays a role in several physiological processes such as T follicular helper cell induction and maturation, antibody affinity maturation and regulation of T helper cell inflammatory responses.

Flow Cytometry Use 10 µl of the suggested working dilution to label 1x10⁶ cells in 100ul

Further Reading

1. Hutloff, A. *et al.* (1999) ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28. [Nature. 397 \(6716\): 263-6.](#)
2. Yoshinaga SK *et al.* (1999) T-cell co-stimulation through B7RP-1 and ICOS. [Nature. 402 \(6763\): 827-32.](#)

Storage Store at +4°C. DO NOT FREEZE.
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6051GA>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Hamster IgG (STAR104...) [DyLight®550](#), [DyLight®650](#), [DyLight®800](#),
[FITC](#)

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

Recommended Negative Controls

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

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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

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