

Datasheet: MCA6051F

Description:	HAMSTER ANTI MOUSE CD278:FITC
Specificity:	CD278
Format:	FITC
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	■			1/10 - 1/20

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.		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)		
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml		
Immunogen	Mouse T cell clone D10.G4.1		
External Database Links	UniProt:		

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 <i>et al.</i> 1999) which also contains the immune attenuator CTLA-4. CD278 expression is found following T cell activation (Yoshinaga <i>et al.</i> 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 1x10 ⁶ cells in 100ul
Further Reading	1. Hutloff, A. <i>et al.</i> (1999) ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28. Nature. 397 (6716): 263-6. 2. Yoshinaga SK <i>et al.</i> (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.
Shelf Life	18 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet documentation #10040 available at https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:FITC \(MCA2356F\)](#)

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