

Datasheet: MCA6051PE

Description:	HAMSTER ANTI MOUSE CD278:RPE
Specificity:	CD278
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	C398.4A
Isotype:	IgG
Quantity:	100 TESTS/0.5ml

Product Details

Applications

Stabilisers

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	•			1/2 - 1/10

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	Reacts with: Rat, H	uman		
Reactivity	reactivity is derived	ivity and working conditi from testing within our leading and the constitutions from the originate	aboratories, peer-revie	ewed publication
Product Form	Purified IgG conjug	ated to R. Phycoerythrin	(RPE) - liquid	
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	RPE 488nm laser	496	578	
Preparation	Purified IgG prepared by affinity chromatography			
Buffer Solution	Phosphate buffered	saline		
Preservative Stabilisers	0.09% Sodium Azio	le (NaN ₃)		

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 acitvated 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 affininty 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	 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. 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. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6051PE 10040
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

HAMSTER (ARMENIAN) IgG NEGATIVE CONTROL:RPE (MCA2356PE)

North & South Tel: +1 800 265 7376 Worldwide Tel: +44 (0)1865 852 700 Europe Tel: +49 (0) 89 8090 95 21 America

Fax: +1 919 878 3751 Fax: +44 (0)1865 852 739 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.comd a Email: antibody_sales_us@bio-rad.com Email: antibody_sales_uk@bio-rad.com

То

batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M401841:220718'

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