

Datasheet: MCA2806SBB675

Description:	MOUSE ANTI HUMAN CD69:StarBright Blue 675
Specificity:	CD69
Other names:	AIM
Format:	StarBright Blue 675
Product Type:	Monoclonal Antibody
Clone:	FN50
Isotype:	lgG1
Quantity:	100 TESTS/0.5ml

Product Details

Applications	This product has been in derived from testing with communications from the information. For generation and the secom/profestion of the secom of the secom of the secom of the secom of the second of the secon	hin our labora ne originators Il protocol rec	itories, p . Please	peer-reviewed publica refer to references in	tions or personal dicated for further
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			Neat
	Where this product has necessarily exclude its a guide only. It is recom system using appropria	use in such p nmended that	rocedure the use	es. Suggested workin r titrates the product f	g dilutions are given as
Target Species	Human				
Species Cross Reactivity	Reacts with: Baboon, Chimpanzee, Cynomolgus monkey, Rhesus Monkey, Macaque 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	I to StarBright	Blue 67	75 - liquid	
Max Ex/Em	Fluorophore StarBright Blue 675	Excitation Ma 476	x (nm)	Emission Max (nm) 675	
Preparation	Purified IgG prepared b supernatant	by affinity chro	matogra	aphy on Protein G fror	m tissue culture
Buffer Solution	Phosphate buffered sali	ine			

Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin
	0.1% Pluronic F68
	0.1% PEG 3350
	0.05% Tween 20
Immunogen	Activated human B-cells.
External Database	
Links	UniProt:
	Q07108 Related reagents
	Entrez Gene:
	969 CD69 Related reagents
Synonyms	CLEC2C
Specificity	Mouse anti Human CD69 antibody, clone FN50 recognizes the human early activation
	antigen CD69, also known as activation inducer molecule (AIM), Early T-cell activation
	antigen p60, EA1 or MLR-3. CD69 is a 199 amino acid single pass type II transmembrane
	glycoprotein of ~30 kDa containing a single <u>C-type lectin domain</u> and a single potential
	N-glycosylation site. CD69 is expressed as a disulphide bond linked homodimer of ~60
	kDa (<u>López-Cabrera <i>et al.</i> 1993)</u> .
	CD69 is a marker of early activation expressed by B and T lymphocytes, natural killer
	cells(<u>Werfel 1997</u>), neutrophils, thymocytes and platelets (<u>Gaviol <i>et al.</i> 1992</u>). Expression
	of CD69 is rapidly induced on activation by infection or chronic inflamation (<u>Sancho <i>et al.</i></u>
	2005). Multiple dimeric glycoforms of CD69 can be formed through differential
	glycosylation of the monomeric subunits (<u>Vance <i>et al.</i> 1997</u>).
	Mouse anti Human CD69, clone FN50 is useful for the detection of CD69 by flow
	cytometry and immunohistochemistry on frozen tissue sections.
Flow Cytometry	Use 5ul of the suggested working dilution to label 10 ⁶ cells in 100ul. Best practices
	suggest a 5 minutes centrifugation at 6,000g prior to sample application.
References	1. Holte, H. et al. (1989) Ki67 and 4F2 antigen expression as well as DNA synthesis
	predict survival at relapse/tumour progression in low-grade B-cell lymphoma. Int J Cancer.
	44 (6): 975-80.
	2. Herberth, M. <i>et al.</i> (2010) Differential effects on T-cell function following exposure to
	serum from schizophrenia smokers. Mol Psychiatry. 15 (4): 364-71.
	3. Schaeuble, K. <i>et al.</i> (2011) Cross-talk between TCR and CCR7 signaling sets a
	temporal threshold for enhanced T lymphocyte migration. <u>J Immunol. 187 (11): 5645-52.</u>
	4 Sela M et al. (2011) Sequential phosphorylation of SI P-76 at tyrosing 173 is required
	4. Sela, M. <i>et al.</i> (2011) Sequential phosphorylation of SLP-76 at tyrosine 173 is required for activation of T and mast cells. EMBO 1, 30 (15): 3160, 72
	for activation of T and mast cells. EMBO J. 30 (15): 3160-72.
	for activation of T and mast cells. <u>EMBO J. 30 (15): 3160-72.</u> 5. Garbe, Y. <i>et al.</i> (2011) Semiallogenic fusions of MSI(+) tumor cells and activated B cells
	for activation of T and mast cells. EMBO J. 30 (15): 3160-72.

	DNA mismatch repair-deficient cancer cells. Cancer Immun. 4: 14.
	7. Sutavani, R.V. et al. (2013) CD55 Costimulation Induces Differentiation of a Discrete T
	Regulatory Type 1 Cell Population with a Stable Phenotype. <u>J Immunol. 191: 5895-903.</u>
	8. Walter, G.J. et al. (2013) Interaction with activated monocytes enhances cytokine
	expression and suppressive activity of human CD4+CD45ro+CD25+CD127(low)
	regulatory T cells. <u>Arthritis Rheum. 65: 627-38.</u>
	9. Kuric, E. et al. (2017) Demonstration of Tissue Resident Memory CD8 T Cells in
	Insulitic Lesions in Adult Patients with Recent-Onset Type 1 Diabetes. <u>Am J Pathol. 187</u> (3): 581-8.
	10. Karnell, F.G. et al. (2017) Reconstitution of immune cell populations in multiple
	sclerosis patients after autologous stem cell transplantation. <u>Clin Exp Immunol. 189 (3):</u> <u>268-278.</u>
	11. Rossatti, P. et al. (2022) Rapid increase in transferrin receptor recycling promotes
	adhesion during T cell activation. <u>BMC Biol. 20 (1): 189.</u>
Storage	Store at +4°C. DO NOT FREEZE.
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
Storage Guarantee	
	This product should be stored undiluted.
Guarantee	This product should be stored undiluted. 12 months from date of despatch This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign
Guarantee Acknowledgements	This product should be stored undiluted. 12 months from date of despatch This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Guarantee Acknowledgements Health And Safety	This product should be stored undiluted. 12 months from date of despatch This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts Material Safety Datasheet documentation #20471 available at:

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

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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 'M405188:220916'

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