

Datasheet: MCA2410F BATCH NUMBER 154293

Description:	MOUSE ANTI MOUSE NOTCH 1:FITC
Specificity:	NOTCH 1
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	mN1A
lsotype:	lgG1
Quantity:	0.1 mg

Product Details

Applications	This product has been	reported to	work in t	he following application	ns. This information is						
	derived from testing within our laboratories, peer-reviewed publications or personal										
	communications from t	communications from the originators. Please refer to references indicated for further									
	information. For genera	information. For general protocol recommendations, please visit <u>www.bio-</u>									
	rad-antibodies.com/pro										
		Yes	No	Not Determined	Suggested Dilution						
	Flow Cytometry (1)				Neat - 1/10						
	Immunohistology - Frozer	1		•							
	ELISA			•							
	Immunoprecipitation			•							
	Western Blotting			•							
	Where this antibody 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 recon	a guide only. It is recommended that the user titrates the antibody for use in their own									
	system using appropriate negative/positive controls. (1)Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code <u>BUF09</u>) for this purpose.										
						Target Species	Mouse				
						Species Cross	Reacts with: Human				
Reactivity	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	to Fluore	scein Isotł	niocyanate Isomer 1 (F	TTC) - liquid						
Max Ex/Em	Fluorophore	Excitation	Max (nm)	Emission Max (nm)							

	FITC	490	525	
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant			
Buffer Solution	Phosphate buffered saline			
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin			
Approx. Protein Concentrations	IgG concentration 0.1mg/ml			
Immunogen	Synthetic peptide corresponding to cdc10-NCR region within mouse Notch1.			
External Database Links	UniProt: Q01705 Relate Entrez Gene: 18128 Notch1	<u>d reagents</u> Related reagents		
Synonyms	Motch			
RRID	AB_2153357			
Fusion Partners	Spleen cells from imm myeloma cell line.	unised BALB/c mice were fus	sed with cell	s of the mouse SP2/0
Specificity	 Mouse anti Mouse Notch 1 antibody, clone mN1A recognizes Notch 1, one of the four major transmembrane receptors (Notch 1-4) of the Notch signaling pathway, which is activated through binding to DSL domain-containing membrane-bound specific ligands. The Notch signaling pathway is an evolutionarily conserved pathway in multi-cellular organisms, which is vital for cell-cell communication, important during fundamental developmental and physiological processes, including regulation of cell fate decisions during neuronal, cardiac and endocrine development, stem cell haematopoiesis, thymic T-cell development, and both tumour progression and suppression. Ligation of Notch receptors by their specific ligands, Jagged1 (CD339), Jagged2, Delta like-1 (DLL1), DLL3 and DLL4, on physically adjacent signal receiving cells, induces proteolysis of the receptors by ADAM-family metalloproteases and gamma-secretase complex, within the transmembrane domain, releasing the Notch intracellular domain (NICD) to translocate to the nucleus. Subsequent signal transduction then occurs through 			
	either the CSL-NICD-N NF-kappaB-NICD and pathway). The canonic cells, whilst the non-ca	Astermind complex cascade CSL-NICD-Deltex complex s cal pathway inhibits the different monical pathway promotes di	(canonical ignaling cas entiation of s fferentiation	pathway), or cades (non-canonical stem cells or progenitor

	Notch 1 is expressed in a range of cells including haematopoietic cells in mouse foetal liver, adult thymus and bone marrow. Notch 1 signaling plays a role in follicular differentiation, tissue homeostasis, and in both CD4+ and CD8+ cell maturation in the thymus. Studies have also implicated Notch 1 in the regulation of lymphopoiesis, myelopoiesis, and neurogenesis.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	 Ray, W.J. <i>et al.</i> (1999) Evidence for a physical interaction between presenilin and Notch. <u>Proc Natl Acad Sci U S A. 96 (6): 3263-8.</u> Huppert, S.S. <i>et al.</i> (2000) Embryonic lethality in mice homozygous for a processing- definient ellele of Nateh1. Nature, 405 (6780): 966, 70
	 3. Espinosa, L. <i>et al.</i> (2002) p65-NFkappaB synergizes with Notch to activate transcription by triggering cytoplasmic translocation of the nuclear receptor corepressor N-CoR. <u>J Cell</u> <u>Sci. 115 (Pt 6): 1295-303.</u> 4. Ren, M. and Cowell, J.K. (2011) Constitutive Notch pathway activation in murine ZMYM2-FGFR1-induced T-cell lymphomas associated with atypical myeloproliferative
	disease. <u>Blood. 117: 6837-47.</u>
Further Reading	1. Kang-decker, N. <i>et al.</i> (2004) Loss of CBP causes T cell lymphomagenesis in synergy with p27Kip1 insufficiency. <u>Cancer Cell. 5 (2): 177-89.</u>
Storage	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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2410F 10041
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A) MOUSE SEROBLOCK FcR (BUF041B)

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_us@bio-rad.com	Email: antibody_sales_uk@bio-rad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M366845:200529'

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