Datasheet: MCA2410GA BATCH NUMBER 1702

Description:	MOUSE ANTI MOUSE NOTCH 1
Specificity:	NOTCH 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	mN1A
lsotype:	lgG1
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 <u>www.bio-</u> rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry (1)						
	Immunohistology - Frozen				1/50 - 1/200		
	ELISA						
	Immunoprecipitation			•			
	Western Blotting	•					
	Where this antibody has not been tested for use in a particular technique this does not						
	necessarily exclude its u a guide only. It is recomr system using appropriate (1) Membrane permeabi the use of Leucoperm ⁺	nended th e negative l lisation i	nat the us e/positive s require	er titrates the antibody controls. d for this application	for use in their own . Bio-Rad recommends		
Target Species	Mouse						
Species Cross Reactivity	Reacts with: 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 cl	hromatog	raphy on Protein G froi	m tissue culture		

	supernatant			
Buffer Solution	Phosphate buffered saline			
Preservative Stabilisers	0.09% Sodium Azide			
Carrier Free	Yes			
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml			
Immunogen	Synthetic peptide corresponding to cdc10-NCR region within mouse Notch1.			
External Database Links	UniProt: Q01705 Related reagents Entrez Gene: 18128 Notch1 Related reagents			
Synonyms	Motch			
RRID	AB_808683			
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.			
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			
	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-Mastermind complex cascade (canonical pathway), or NF-kappaB-NICD and CSL-NICD-Deltex complex signaling cascades (non-canonical			

	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- deficient allele of Notch1. <u>Nature. 405 (6789): 966-70.</u> 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> 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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2410GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	<u>RPE</u>		
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>			
Goat Anti Mouse IgG (STAR76)	<u>RPE</u>		
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>		
Rabbit Anti Mouse IgG (STAR13)	HRP		
Goat Anti Mouse IgG (Fc) (STAR120)	<u>FITC, HRP</u>		
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>		
Goat Anti Mouse IgG (STAR77)	HRP		

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP

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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 'M366846:200529'

Printed on 23 May 2025

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