

Datasheet: MCA5702GA

Description:	HAMSTER ANTI MOUSE NOTCH 2
Specificity:	NOTCH 2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	HMN2-35
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	▪			

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

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 chromatography on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Mouse Notch 2-Fc fusion protein.
External Database Links	<p>UniProt:</p> <p>O35516 Related reagents</p> <p>Q9QW30 Related reagents</p> <p>Entrez Gene:</p> <p>18129 Notch2 Related reagents</p> <p>29492 Notch2 Related reagents</p>
RRID	AB_10708543
Fusion Partners	Spleen cells from immunised Armenian hamsters were fused with cells of the P3U1 myeloma cell line.
Specificity	<p>Hamster anti Mouse Notch 2 antibody, clone HMN2-35 recognizes Notch 2, 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.</p> <p>Signaling through Notch 2 has been implicated in the development of marginal zone B cells (MZB), the sensitization of endothelial cells to apoptosis, and the regulation of the expression of CD23 in B-cell lymphocytic leukemia (B-CLL). There is a negative correlation between Notch 2 expression and the grade of human breast cancer.</p> <p>Hamster anti Mouse Notch 2 antibody, clone HMN2-35 cross-reacts with rat mast cell line RBL-2H3 and Y3 myeloma cells, in flow cytometry.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	<ol style="list-style-type: none"> Moriyama, Y. <i>et al.</i> (2008) Delta-like 1 is essential for the maintenance of marginal zone B cells in normal mice but not in autoimmune mice. Int Immunol. 20 (6): 763-73. Sekine, C. <i>et al.</i> (2009) Differential regulation of splenic CD8- dendritic cells and marginal zone B cells by Notch ligands. Int Immunol. 21 (3): 295-301. Gibb, D.R. <i>et al.</i> (2010) ADAM10 is essential for Notch2-dependent marginal zone B cell development and CD23 cleavage <i>in vivo</i>. J Exp Med. 207 (3): 623-35. Sakata-Yanagimoto, M. <i>et al.</i> (2011) Notch2 signaling is required for proper mast cell distribution and mucosal immunity in the intestine. Blood. 117 (1): 128-34.
Further Reading	<ol style="list-style-type: none"> Bray, S.J. (2006) Notch signalling: a simple pathway becomes complex. Nat Rev Mol Cell Biol. 7 (9): 678-89. Iso, T. <i>et al.</i> (2003) Notch signaling in vascular development. Arterioscler Thromb Vasc Biol. 23 (4): 543-53. Hu, X. <i>et al.</i> (2008) Integrated regulation of Toll-like receptor responses by Notch and interferon-gamma pathways. Immunity. 29 (5): 691-703.

4. Hoyne, G.F. *et al.* (2001) Notch signalling in the regulation of peripheral immunity. [Immunol Rev. 182: 215-27.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Hamster IgG (STAR104...) [DyLight@550](#), [DyLight@800](#), [FITC](#)

Goat Anti Hamster IgG (STAR79...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL \(MCA2356\)](#)

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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](https://www.bio-rad-antibodies.com/datasheets)

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