

Datasheet: MCA4647GA

Description:	RAT ANTI MOUSE SIGLEC-H
Specificity:	SIGLEC-H
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	440c
Isotype:	IgG2b
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	▪			
Immunohistology - Frozen	▪			1/50 - 1/200
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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
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 (NaN ₃)
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Purified bone marrow-derived IPCs and CpG oligodeoxynucleotide 1826.
External Database Links	UniProt: Q3Y597 Related reagents
RRID	AB_10557089
Fusion Partners	Lymph node cells from immunised Wistar/CRL rats were fused with cells of the Sp2/0 myeloma cell line.
Specificity	<p>Rat anti Mouse Siglec-H antibody, clone 440c recognizes the cell surface receptor Siglec-H, a sialic acid binding Ig-like lectin and member of the immunoglobulin superfamily. Siglec-H is exclusively expressed by mouse natural interferon producing cells (IPCs), which play a major role in the first line defence against viruses, through the production of type I interferon (IFN), interleukin-12 (IL-12) and pro-inflammatory chemokines.</p> <p>Unlike other Siglecs, Siglec-H lacks a characteristic cytoplasmic ITIM (immunoreceptor tyrosine based inhibitory motif) domain, and instead relies upon its association with the adaptor protein DAP12 for signal transduction.</p> <p>Rat anti Mouse Siglec-H antibody, clone 440c inhibits IFN-alpha secretion by IPCs both <i>in vitro</i> and <i>in vivo</i> (Blasius et al. 2004).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Blasius, A. <i>et al.</i> (2004) A cell-surface molecule selectively expressed on murine natural interferon-producing cells that blocks secretion of interferon-alpha. Blood. 103 (11): 4201-6. 2. Blasius, A.L. <i>et al.</i> (2006) Siglec-H is an IPC-specific receptor that modulates type I IFN secretion through DAP12. Blood. 107 (6): 2474-6. 3. Akk, A. <i>et al.</i> (2016) Neutrophil Extracellular Traps Enhance Early Inflammatory Response in Sendai Virus-Induced Asthma Phenotype. Front Immunol. 7: 325. 4. Liou, L.Y. <i>et al.</i> (2008) <i>In vivo</i> conversion of BM plasmacytoid DC into CD11b+ conventional DC during virus infection. Eur J Immunol. 38 (12): 3388-94.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
Guarantee	18 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

Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR131...)	Alk. Phos., Biotin
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight@800
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@800
Goat Anti Rat IgG (STAR72...)	HRP

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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