

Datasheet: MCA4647EL

Description:	RAT ANTI MOUSE SIGLEC-H:Low Endotoxin
Specificity:	SIGLEC-H
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	440c
Isotype:	IgG2b
Quantity:	0.5 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			▪	
Functional Assays	▪			

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	None present
Carrier Free	Yes

Endotoxin Level	<0.01EU/ug
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_10548607
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 1×10^6 cells in 100ul.
References	<ol style="list-style-type: none"> 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. 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. Akk, A. <i>et al.</i> (2016) Neutrophil Extracellular Traps Enhance Early Inflammatory Response in Sendai Virus-Induced Asthma Phenotype. Front Immunol. 7: 325. 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 -20°C only.</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 #10162 available at:
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.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

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