

Datasheet: MCA5783GA

Description:	MOUSE ANTI HUMAN SIGLEC-10
Specificity:	SIGLEC-10
Other names:	SIALIC ACID-BINDING IG-LIKE LECTIN 10
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	5G6
Isotype:	IgG1
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	▪			1/25 - 1/200
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
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 recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A 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 1.0 mg/ml
Immunogen	Recombinant human Siglec-10, fused with the Fc region of human IgG
External Database Links	<p>UniProt: Q96LC7 Related reagents</p> <p>Entrez Gene: 89790 SIGLEC10 Related reagents</p>
Synonyms	SLG2
Specificity	<p>Mouse anti Human Siglec-10 antibody, clone 5G6 recognises human Siglec-10 (Sialic acid-binding Ig-like lectin 10), a putative adhesion molecule and member of the Ig superfamily, expressed by monocytes, B cells, eosinophils, and at a higher level by a subpopulation of CD16+CD56- natural killer (NK) cells. Structurally, Siglec-10 is most similar to the CD33-related group of Siglecs, and preferentially binds to glycoconjugates containing alpha-2,3- or alpha-2,6-linked sialic acid. Siglec-10 acts as a substrate for VAP-1 (Vascular adhesion protein-1), a glycoprotein expressed on endothelium during inflammation, which is involved in primary amine oxidation and leucocyte trafficking, (Kivi et al. 2009). This interaction between Siglec-10 and VAP-1, implicates Siglec-10 in endothelial lymphocyte adhesion and in the modulation of the inflammatory microenvironment. Mouse anti Human Siglec-10 antibody, clone 5G6 does not cross-react with Siglecs 3, 5, 7, 8 and 9 (Munday et al. 2001).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells.
References	<ol style="list-style-type: none"> 1. Munday, J. <i>et al.</i> (2001) Identification, characterization and leucocyte expression of Siglec-10, a novel human sialic acid-binding receptor. Biochem J. 355 (Pt 2): 489-97. 2. Kivi, E. <i>et al.</i> (2009) Human Siglec-10 can bind to vascular adhesion protein-1 and serves as its substrate. Blood. 114 (26): 5385-92. 3. Nguyen, D.H. <i>et al.</i> (2006) Loss of Siglec expression on T lymphocytes during human evolution. Proc Natl Acad Sci U S A. 103 (20): 7765-70. 4. Ju, B. <i>et al.</i> (2022) Elevated CD19⁺Siglec-10⁺ B cell levels are correlated with systemic lupus erythematosus disease activity. Int Immunopharmacol. 102: 108403.
Further Reading	1. Crocker, P.R. (2005) Siglecs in innate immunity. Curr Opin Pharmacol. 5 (4): 431-7.
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>

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/MCA5783GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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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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