Datasheet: MCA5783GA

BATCH NUMBER 168625

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	**UniProt:** Q96LC7 Related reagents **Entrez Gene:** 89790 SIGLEC10 Related reagents
Synonyms	SLG2
Specificity	**Mouse anti Human Siglec-10 antibody, clone 5G6** recognizes 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).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells.
References	1. Munday, J. *et al.* (2001) Identification, characterization and leucocyte expression of Siglec-10, a novel human sialic acid-binding receptor. Biochem J. 355 (Pt 2): 489-97. 2. Nguyen, D.H. *et al.* (2006) Loss of Siglec expression on T lymphocytes during human evolution. Proc Natl Acad Sci U S A. 103 (20): 7765-70. 3. Kivi, E. *et al.* (2009) Human Siglec-10 can bind to vascular adhesion protein-1 and serves as its substrate. Blood. 114 (26): 5385-92. 4. Ju, B. *et al.* (2022) Elevated $CD19^+Siglec\text{-}10^+$ 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	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: 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
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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