

Datasheet: MCA5783PE

BATCH NUMBER 156708

Description:	MOUSE ANTI HUMAN SIGLEC-10:RPE
Specificity:	SIGLEC-10
Other names:	SIALIC ACID-BINDING IG-LIKE LECTIN 10
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	5G6
Isotype:	IgG1
Quantity:	100 TESTS

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	▪			Neat

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 conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		

5% Sucrose

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** 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](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ 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. 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.](#)
3. 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.](#)
4. Ju, B. *et al.* (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 Prior to reconstitution store at +4°C.
After reconstitution store at +4°C.
DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Material Safety Datasheet documentation #20487 available at:

Information <https://www.bio-rad-antibodies.com/SDS/MCA5783PE>
20487

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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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)

'M376186:210120'

Printed on 19 Jan 2024

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