

## Datasheet: MCA5783F

<b>Description:</b>	MOUSE ANTI HUMAN SIGLEC-10:FITC
<b>Specificity:</b>	SIGLEC-10
<b>Other names:</b>	SIALIC ACID-BINDING IG-LIKE LECTIN 10
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	5G6
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat - 1/10

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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		
<b>Immunogen</b>	Recombinant human Siglec-10, fused with the Fc region of human IgG		
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q96LC7</a> <a href="#">Related reagents</a>		

**Entrez Gene:**

[89790](#) SIGLEC10 [Related reagents](#)

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<b>Synonyms</b>	SLG2
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<b>Specificity</b>	<b>Mouse anti Human Siglec-10 antibody, clone 5G6</b> 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, ( <a href="#">Kivi et al. 2009</a> ). 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 ( <a href="#">Munday et al. 2001</a> ).
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells.
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<b>References</b>	<ol style="list-style-type: none"><li>1. Munday, J. <i>et al.</i> (2001) Identification, characterization and leucocyte expression of Siglec-10, a novel human sialic acid-binding receptor. <a href="#">Biochem J. 355 (Pt 2): 489-97.</a></li><li>2. Kivi, E. <i>et al.</i> (2009) Human Siglec-10 can bind to vascular adhesion protein-1 and serves as its substrate. <a href="#">Blood. 114 (26): 5385-92.</a></li><li>3. Nguyen, D.H. <i>et al.</i> (2006) Loss of Siglec expression on T lymphocytes during human evolution. <a href="#">Proc Natl Acad Sci U S A. 103 (20): 7765-70.</a></li></ol>
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<b>Further Reading</b>	<ol style="list-style-type: none"><li>1. Crocker, P.R. (2005) Siglecs in innate immunity. <a href="#">Curr Opin Pharmacol. 5 (4): 431-7.</a></li></ol>
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<b>Storage</b>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

### Recommended Useful Reagents

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

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

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