

Datasheet: MCA5787PE

Description:	MOUSE ANTI HUMAN SIGLEC-5/SIGLEC-14:RPE
Specificity:	SIGLEC-5/SIGLEC-14
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	1A5
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		
Species Cross Reactivity	Reacts with: Chimpanzee N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1.0ml 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 Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 5% Sucrose
Immunogen	Siglec-5-Fc protein, consisting of the full-length extracellular region of human Siglec-5, fused with the Fc region of human IgG1.
External Database Links	<p>UniProt:</p> <p>O15389 Related reagents</p> <p>Q08ET2 Related reagents</p> <p>Entrez Gene:</p> <p>8778 SIGLEC5 Related reagents</p> <p>100049587 SIGLEC14 Related reagents</p>
Synonyms	CD33L2, OBBP2
Specificity	<p>Mouse anti Human Siglec-5/Siglec-14 antibody, clone 1A5 recognizes human Siglec-5 (Sialic acid-binding Ig-like lectin 5), otherwise known as CD170, a novel sialic-acid-binding Ig-like lectin, and member of the Ig superfamily, expressed by dendritic cells (DCs), activated macrophages, neutrophils, and cells of the monocyte/myeloid lineage.</p> <p>Mouse anti Human Siglec-5/Siglec-14 antibody, clone 1A5, is one of several Siglec-5 antibodies which also recognises human Siglec-14 (Angata et al. 2006). Siglec-14 shares an almost identical sequence with Siglec-5 within the first two Ig-like domains, indicating partial gene conversion between these two Siglecs, also evident in other primate species.</p> <p>Siglec-5 is also related to the myelomonocytic-derived adhesion molecule CD33 (Siglec-3), and mediates sialic-acid dependent binding to cells, as well as acting as an inhibitory receptor in the down-regulation of cell activation.</p> <p>Structurally, Siglec-5 contains an immunoreceptor tyrosine-based inhibitor motif (ITIM), which plays a part in the modulation of cellular responses, and when phosphorylated, can bind to the SH2 domain of several SH2-containing phosphatases. Siglec-14 is a putative sialic-acid binding adhesion molecule, and member of the Ig superfamily, predominantly expressed in hematopoietic tissues, which has been shown to associate with the activating adapter protein DAP12. Mouse anti Human Siglec-5/Siglec-14 antibody, clone 1A5 cross reacts with Chimpanzee (Jaroenpool et al. 2007).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells.
References	<ol style="list-style-type: none"> 1. Cornish, A.L. <i>et al.</i> (1998) Characterization of siglec-5, a novel glycoprotein expressed on myeloid cells related to CD33. Blood. 92 (6): 2123-32. 2. Avril, T. <i>et al.</i> (2005) Siglec-5 (CD170) can mediate inhibitory signaling in the absence of immunoreceptor tyrosine-based inhibitory motif phosphorylation. J Biol Chem. 280 (20):

[19843-51.](#)

3. Angata, T. *et al.* (2006) Discovery of Siglec-14, a novel sialic acid receptor undergoing concerted evolution with Siglec-5 in primates. [FASEB J. 20: 1964-1973.](#)

4. 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.](#)

5. Jaroenpool, J. *et al.* (2007) Differences in the constitutive and SIV infection induced expression of Siglecs by hematopoietic cells from non-human primates. [Cell Immunol. 250 \(1-2\): 91-104.](#)

Further Reading	1. Crocker, P.R. (2005) Siglecs in innate immunity. Curr Opin Pharmacol. 5 (4): 431-7.
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Storage	This product is shipped at ambient temperature. 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.
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA5787PE 20487
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Regulatory	For research purposes only
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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)

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