

Datasheet: MCA5782PE

Description:	MOUSE ANTI HUMAN SIGLEC-7:RPE
Specificity:	SIGLEC-7
Other names:	CD328
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	S7.7
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
Functional Assays (1)			■	

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.

(1) **Bio-Rad recommends the use of [MCA5782EL](#) for functional assays**

Target Species	Human		
Species Cross Reactivity	Reacts with: Rhesus Monkey 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 1.0 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)

Preparation	Purified IgG prepared by affinity chromatography on Protein G 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-7 3T3 transfected cells.
External Database Links	<p>UniProt: Q9Y286 Related reagents</p> <p>Entrez Gene: 27036 SIGLEC7 Related reagents</p>
Synonyms	AIRM1
Fusion Partners	Spleen cells from immunized Balb/c mice, were fused with cells of the Sp2/0 myeloma cell line.
Specificity	<p>Mouse anti Human Siglec-7 antibody, cloneS7.7 recognizes human Sialic acid-binding Ig-like lectin 7, otherwise known as CD328, a putative adhesion molecule and member of the Ig superfamily, predominantly expressed by both resting and activated natural killer (NK) cells, and also at lower levels by monocytes, granulocytes, monocyte-derived macrophages and dendritic cells, and a small population of CD8+ memory T cells.</p> <p>Classed as a CD33-related Siglec, Siglec-7 preferentially binds to glycoconjugates containing alpha-2,3- or alpha-2,6-linked sialic acid, and acts as a novel inhibitory receptor for NK cells, mediating the inhibition of NK cell cytotoxicity, and implicated in the regulation of NK cell and T cell activation, and hematopoiesis.</p> <p>Mouse anti Human Siglec-7 antibody, cloneS7.7 is a blocking antibody (Avril et al. 2006), and has been shown to recognize Siglec-7 in Rhesus monkey (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"> Nicoll, G. <i>et al.</i> (1999) Identification and characterization of a novel siglec, siglec-7, expressed by human natural killer cells and monocytes. J Biol Chem. 274 (48): 34089-95. 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. Avril T <i>et al.</i> (2006) Sialic acid-binding immunoglobulin-like lectin 7 mediates selective recognition of sialylated glycans expressed on <i>Campylobacter jejuni</i> lipooligosaccharides. Infect Immun. 74 (7): 4133-41.

4. 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.](#)

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 Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA5782PE 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)

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