

## Datasheet: MCA5782F

<b>Description:</b>	MOUSE ANTI HUMAN SIGLEC-7:FITC
<b>Specificity:</b>	SIGLEC-7
<b>Other names:</b>	CD328
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	S7.7
<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
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 <b>N.B.</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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		

<b>Buffer Solution</b>	Phosphate buffered saline.
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>Immunogen</b>	Siglec-7 3T3 transfected cells.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q9Y286</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">27036</a>    SIGLEC7    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	AIRM1
<b>Fusion Partners</b>	Spleen cells from immunized Balb/c mice, were fused with cells of the Sp2/0 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human Siglec-7 antibody, cloneS7.7</b> 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 (<a href="#">Avril et al. 2006</a>), and has been shown to recognize Siglec-7 in Rhesus monkey (<a href="#">Jaroenpool et al. 2007</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells.
<b>References</b>	<ol style="list-style-type: none"> <li>Nicoll, G. <i>et al.</i> (1999) Identification and characterization of a novel siglec, siglec-7, expressed by human natural killer cells and monocytes. <a href="#">J Biol Chem. 274 (48): 34089-95.</a></li> <li>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> <li>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. <a href="#">Infect Immun. 74 (7): 4133-41.</a></li> <li>Jaroenpool, J. <i>et al.</i> (2007) Differences in the constitutive and SIV infection induced expression of Siglecs by hematopoietic cells from non-human primates. <a href="#">Cell Immunol. 250 (1-2): 91-104.</a></li> </ol>

<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>
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<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA5782F">https://www.bio-rad-antibodies.com/SDS/MCA5782F</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

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

### Recommended Useful Reagents

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

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M433767:241203'

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