

# Datasheet: MCA5782GA

**BATCH NUMBER 148193**

<b>Description:</b>	MOUSE ANTI HUMAN SIGLEC-7
<b>Specificity:</b>	SIGLEC-7
<b>Other names:</b>	CD328
<b>Format:</b>	Purified
<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	▪			1/25 - 1/200
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting	▪			
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 on [MCA5782EL](#) for functional studies.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Rhesus Monkey</p> <p><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.</p>
<b>Product Form</b>	Purified IgG - liquid

<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 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 immunised 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>Western Blotting</b>	MCA5782GA detects a band of approximately 65kDa using Siglec-7 transfected CHO cells see <a href="#">Nicoll, G. et al.</a> for details.
<b>References</b>	<ol style="list-style-type: none"> <li>Nicoll, G. et al. (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>Jaroenpool, J. et al. (2007) Differences in the constitutive and SIV infection induced</li> </ol>

expression of Siglecs by hematopoietic cells from non-human primates. [Cell Immunol. 250 \(1-2\): 91-104.](#)

3. Avril T *et al.* (2006) Sialic acid-binding immunoglobulin-like lectin 7 mediates selective recognition of sialylated glycans expressed on *Campylobacter jejuni* lipooligosaccharides. [Infect Immun. 74 \(7\): 4133-41.](#)

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.](#)

<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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA5782GA">https://www.bio-rad-antibodies.com/SDS/MCA5782GA</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
----------------------------------	---	------------------	---	---------------	---

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)

'M368391:200529'

Printed on 03 Dec 2024

