

Datasheet: MCA5782F

BATCH NUMBER 0112R

Description:	MOUSE ANTI HUMAN SIGLEC-7:FITC
Specificity:	SIGLEC-7
Other names:	CD328
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	S7.7
Isotype:	IgG1
Quantity:	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.

	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

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 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 G from tissue culture

supernatant

Buffer Solution	Phosphate buffered saline.
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Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
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Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
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Immunogen	Siglec-7 3T3 transfected cells.
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External Database Links	UniProt: Q9Y286 Related reagents Entrez Gene: 27036 SIGLEC7 Related reagents
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Synonyms	AIRM1
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Fusion Partners	Spleen cells from immunised Balb/c mice, were fused with cells of the Sp2/0 myeloma cell line.
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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 <i>et al.</i> 2006), and has been shown to recognize Siglec-7 in Rhesus monkey (Jaroenpool <i>et al.</i> 2007).</p>
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Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells.
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References	<ol style="list-style-type: none">1. 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): 34089-95.2. 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. Cell Immunol. 250 (1-2): 91-104.3. 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. Nguyen, D.H. <i>et al.</i> (2006) Loss of Siglec expression on T lymphocytes during human
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evolution. [Proc Natl Acad Sci U S A. 103 \(20\): 7765-70.](#)

Storage 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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA5782F>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

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
'M368390:200529'

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