Datasheet: MCA5782GA

BATCH NUMBER 0112

Description:	MOUSE ANTI HUMAN SIGLEC-7
Specificity:	SIGLEC-7
Other names:	CD328
Format:	Purified
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	▪			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.**

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 - liquid

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)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Siglec-7 3T3 transfected cells.
External Database Links	**UniProt:** Q9Y286 Related reagents **Entrez Gene:** 27036 SIGLEC7 Related reagents
Synonyms	AIRM1
Fusion Partners	Spleen cells from immunised Balb/c mice, were fused with cells of the Sp2/0 myeloma cell line.
Specificity	**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. 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. 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).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells.
Western Blotting	MCA5782GA detects a band of approximately 65kDa using Siglec-7 transfected CHO cells see Nicoll, G. *et al.* for details.
References	1. Nicoll, G. *et al.* (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. *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.
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.

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. 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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA5782GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com
Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com
Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com