

Datasheet: MCA2522A647

Description:	MOUSE ANTI HUMAN CDw328:Alexa Fluor® 647
Specificity:	CDw328
Other names:	SIGLEC-7
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	5-386
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Human		
Product Form	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
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		
Approx. Protein Concentrations	IgG concentration 0.05mg/ml		

Immunogen	Monocyte-derived dendritic cells.
External Database Links	<p>UniProt: Q9Y286 Related reagents</p> <p>Entrez Gene: 27036 SIGLEC7 Related reagents</p>
Synonyms	AIRM1
RRID	AB_1102495
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the X63-Ag8.653 myeloma cell line.
Specificity	<p>Mouse anti Human CDw328 antibody, clone 5-386 recognizes human CDw328, a type I transmembrane glycoprotein and member of the Siglec (sialic acid binding Ig-like lectin) family, designated Siglec-7, originally identified as an inhibitory NK cell receptor (NKR) and negative regulator of NK activation, attributed to ITIM recruitment of SHP-1 phosphatase.</p> <p>CDw328 is expressed predominantly by natural killer cells (NK) and to a lesser extent by monocytes and granulocytes and, like Siglec-5 (CD170), has been shown to bind to sialylated ligands of targets through recognition of sialic acid in both the alpha-2,3- and alpha-2,6- glycosidic linkage.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	<ol style="list-style-type: none"> Izquierdo-useros, N. <i>et al.</i> (2012) Siglec-1 is a novel dendritic cell receptor that mediates HIV-1 trans-infection through recognition of viral membrane gangliosides. PLoS Biol. 10 (12): e1001448. Perez-Zsolt, D. <i>et al.</i> (2019) Anti-Siglec-1 antibodies block Ebola viral uptake and decrease cytoplasmic viral entry. Nat Microbiol. 4 (9): 1558-70.
Further Reading	<ol style="list-style-type: none"> Falco, M. <i>et al.</i> (1999) Identification and molecular cloning of p75/AIRM1, a novel member of the sialoadhesin family that functions as an inhibitory receptor in human natural killer cells. J Exp Med. 190 (6): 793-802. 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.
Storage	<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>

Guarantee 12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2522A647>
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Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

Recommended Useful Reagents

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

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

North & South Tel: +1 800 265 7376

America 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

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