

## Datasheet: MCA884SBUV700

**BATCH NUMBER 64682977**

<b>Description:</b>	RAT ANTI MOUSE CD169:StarBright UltraViolet 700
<b>Specificity:</b>	CD169
<b>Other names:</b>	SIALOADHESIN
<b>Format:</b>	StarBright UltraViolet 700
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	3D6.112
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS/0.5ml

## 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

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.

<b>Target Species</b>	Mouse		
<b>Product Form</b>	Purified IgG conjugated to StarBright UltraViolet 700 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	StarBright UltraViolet 700	340	700
<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</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin 0.1% Pluronic F68		

0.1% PEG 3350

0.05% Tween 20

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**Approx. Protein Concentrations**

For information on the concentration of our StarBright Dye conjugated reagents please visit our [FAQ](#) page.

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**Immunogen**

Purified murine sialoadhesin.

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**External Database Links****UniProt:**

[Q62230](#)

[Related reagents](#)

**Entrez Gene:**

[20612](#)

Siglec1

[Related reagents](#)

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**Synonyms**

Sa, Sn

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**Fusion Partners**

Spleen cells from an immunized AO rat were fused with the cells of the Y3 rat myeloma cell line.

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**Specificity**

**Rat anti Mouse CD169 antibody, clone 3D6.112** recognizes mouse CD169 also known as sialoadhesin, Sheep erythrocyte receptor or Siglec-1. CD169 is a 1695 amino acid, ~180 kDa single pass, type 1 transmembrane glycoprotein containing a single [Ig-like V-type](#) domain and sixteen [Ig-like C2-type](#) domains. CD169 is a macrophage restricted receptor, preferentially binding to alpha 2,3 linked sialic acid residues ([Crocker et al. 1991](#)) and is expressed on stromal macrophages in many tissues, particularly in lymph nodes, bone marrow and on marginal metallophilic macrophages in the spleen ([Morris et al. 1991](#)).

CD169 has been implicated in a number of roles including cell-cell interactions with lymphocytes ([van den Berg et al. 1992](#)) and granulocytes ([Crocker et al. 1995](#)). CD169 expressing macrophages have also been suggested to play a role in host resistance to lymphoma metastasis ([Umansky et al. 1996](#)). In pigs CD169 has also been identified as a macrophage restricted receptor for porcine reproductive and respiratory syndrome virus ([Delputte et al. 2007](#)). CD169 expressing macrophages have also been implicated in the regulation of autoimmune disease progression through their interaction with regulatory T cells via CD169 ([Wu et al. 2009](#)). CD169 has also been shown to play a critical role in the recognition and elimination of invasive sialylated microorganisms including *Campylobacter jejuni* ([Klass et al. 2012](#)) and group B Streptococcus ([Chang et al. 2014](#)).

The functional activity of rat anti mouse CD169 antibody, clone 3D6.112, its ability to inhibit binding of red blood cells to CD169 can be considerably enhanced by derivitization of the antibody with polyethylene glycol ([Ducreux et al. 2008](#)).

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**Flow Cytometry**

Use 5µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

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<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20471 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA884SBUV700">https://www.bio-rad-antibodies.com/SDS/MCA884SBUV700</a>
<b>Regulatory</b>	For research purposes only

## Related Products

## Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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