

Datasheet: MCA497SBV515

Description:	RAT ANTI MOUSE F4/80:StarBright Violet 515
Specificity:	F4/80
Format:	StarBright Violet 515
Product Type:	Monoclonal Antibody
Clone:	Cl:A3-1
Isotype:	IgG2b
Quantity:	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.

	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.

Target Species	Mouse						
Product Form	Purified IgG conjugated to StarBright Violet 515 - liquid						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>StarBright Violet 515</td> <td>401</td> <td>516</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	StarBright Violet 515	401	516
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
StarBright Violet 515	401	516					
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 0.1% Pluronic F68 0.1% PEG 3350						
Immunogen	Thioglycollate stimulated peritoneal macrophages from C57BL/6 mice.						

External Database
Links

UniProt:

[Q61549](#) [Related reagents](#)

Entrez Gene:

[13733](#) Emr1 [Related reagents](#)

Synonyms

Gpf480

Fusion Partners

Spleen cells from immunised HOB2 rats were fused with cells of the mouse NS1 myeloma cell line.

Specificity

Rat anti mouse F4/80 antibody, clone Cl:A3-1 recognizes the [murine F4/80 antigen](#), a ~160 kDa cell surface glycoprotein member of the EGF-TM7 family of proteins which shares 68% overall amino acid identity with human EGF module-containing mucin-like hormone receptor 1 (EMR1).

Expression of F4/80 is heterogeneous and is modulated during macrophage maturation and activation. The F4/80 antigen is expressed on a wide range of mature tissue macrophages including Kupffer cells, Langerhans cells, microglia, macrophages located in the gut lamina propria, peritoneal cavity, lung, thymus, bone marrow stroma and macrophages in the red pulp of the spleen ([Hume, et al. 1984](#)). F4/80 antigen is also expressed on a subpopulation of dendritic cells but is absent from macrophages located in T cell areas of the spleen and lymph node ([Gordon, et al. 1994](#)). The ligands and biological functions of the F4/80 antigen have not been fully determined but a role for F4/80 in the generation of efferent CD8+ve regulatory T cells is proposed ([Lin, et al. 2005](#)).

Rat anti mouse F4/80 antibody, clone Cl:A3-1 modulates cytokine levels released in response to *Listeria monocytogenes* ([Warschkau & Kiderlen, 1999](#)).

A Human anti-idiotypic Cl:A31 antibody, clone 17867 ([HCA154](#)) which binds to and blocks activity of Rat anti mouse F4/80 antibody, clone Cl:A3-1 is also available for use as a control in experiments utilizing clone A3-1.

Flow Cytometry

Use 5ul of the suggested working dilution to label 10⁶ cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

References

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Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
Guarantee	12 months from date of despatch
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Health And Safety Information	Material Safety Datasheet documentation #20438 available at: 20438: https://www.bio-rad-antibodies.com/uploads/MSDS/20438.pdf
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

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

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

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
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Printed on 19 Oct 2020