Datasheet: MCA497SBB700

BATCH NUMBER 100007958

Description:	RAT ANTI MOUSE F4/80:StarBright Blue 700
Specificity:	F4/80
Format:	StarBright Blue 700
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 Blue 700 - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
StarBright Blue 700	473	703

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
0.05% Tween 20

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 immunized HOB2 rats were fused with cells of the mouse NS1 myeloma cell line.
Specificity	**Rat anti Mouse F4/80 antibody, clone 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 CI:A3-1 modulates cytokine levels released in response to *Listeria monocytogenes* (Warschkau & Kiderlen, 1999). A Human anti-idiotypic CI:A31 antibody, clone 17867 (HCA154) which binds to and blocks activity of Rat anti mouse F4/80 antibody, clone CI:A3-1 is also available for use as a control in experiments utilizing clone A3-1.
Flow Cytometry	Use 5µl of the suggested working dilution to label 10^6 cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
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