

Datasheet: MCA497BB BATCH NUMBER 150898

Description:	: RAT ANTI MOUSE F4/80:Biotin		
Specificity:	F4/80		
Format:	Biotin		
Product Type:	Monoclonal Antibody		
Clone:	CI:A3-1		
Isotype:	lgG2b		
Quantity:	0.5 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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	-			1/10 - 1/50

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.

Target Species	Mouse
Product Form	Purified IgG conjugated to Biotin - 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  1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Thioglycollate stimulated peritoneal macrophages from C57BL/6 mice.

# External Database Links

UniProt:

Q61549 Related reagents

**Entrez Gene:** 

13733 Emr1 Related reagents

**Synonyms** 

Gpf480

**RRID** 

AB\_323893

**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 CI:A3-1 recognizes the <u>murine F4/80 antigen</u>, 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 CI:A31 antibody, clone 17867 (<u>HCA154</u>) 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 10 $\mathrm{ul}$  of the suggested working dilution to label  $10^6$  cells in 100 $\mathrm{ul}$ .

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**Storage** 

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. 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 #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA497BB">https://www.bio-rad-antibodies.com/SDS/MCA497BB</a> 10041
Regulatory	For research purposes only

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