

Product datasheet for BM4008T

OriGene Technologies, Inc.

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Adgre1 Rat Monoclonal Antibody [Clone ID: Cl:A3-1]

Product data:

Product Type: Primary Antibodies

Clone Name: Cl:A3-1

Applications: EM, FC, IHC, IP, R, WB

Recommended Dilution: RIA.

Western Blot.

Immunoprecipitation. Immunofluorescence.

Immunoelectron Microscopy.

Flow Cytometry: Use 10 μ l of 1/50-1/100 diluted antibody to label 16 cells in 100 μ l. Immunohistochemistry on Frozen and Paraffin Embedded and Resin Sections. This product requires pre-treatment of paraffin sections (Proteinase K is recommended for tissues fixed for less than 24 hours. Citrate buffer pH 6.0 is recommended for tissues fixed for more

than 24 hours).

Reactivity: Mouse
Host: Rat
Isotype: IgG2b

Clonality: Monoclonal

Immunogen: Thioglycollate stimulated peritoneal macrophages from C57/BL mice.

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

line.

Specificity: This antibody recognizes the F4/80 antigen, a member of the EGF-TM7 family of proteins

which shares 68% overall amino acid identity with Human EMR1.

Clone Cl:A31 has been reported to modulate cytokine levels released in response td.isteria

monocytogenes (Ref.5). We recommend the use of BM4008LE for this purpose.

Formulation: PBS, pH 7.4

State: Purified

State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide

Concentration: lot specific

Purification: Affinity Chromatography on Protein G





Adgre1 Rat Monoclonal Antibody [Clone ID: Cl:A3-1] - BM4008T

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: adhesion G protein-coupled receptor E1

Database Link: Entrez Gene 13733 Mouse

Q61549

Background: F4/80 antigen is a 160 kD glycoprotein expressed by most murine macrophages.

Expression of F4/80 is heterogeneous and is reported to vary during macrophage maturation

and activation. The F4/80 antigen is expressed on a wide range of mature tissue

macrophages including Kupffer cells, Langerhans, microglia, macrophages located in the gut lamina propria, peritoneal cavity, lung, thymus, bone marrow stroma and macrophages in the rod pulp of the colony E4/80 expression has also been reported on a subpopulation of

red pulp of the spleen. F4/80 expression has also been reported on a subpopulation of dendritic cells but is absent from macrophages located in T cell areas of the spleen and lymphnode. The ligands and biological functions of the F4/80 antigen have not yet been determined but recent studies suggest a role for F4/80 in the generation of efferent CD8+ve

regulatory T cells.

Synonyms: Emr1, Gpf480

Note: Protocol: 1. Enzyme pre-treatment using Proteinase K (Recommended for tissues fixed

for 24 hours in neutral buffered formalin, NBF):

Reagents

A. TE buffer (50 mM Tris base, 1 mM EDTA, pH 8.0)

Tris Base, 6.10 g EDTA, 0.37 g

Distilled water, 1000 ml

Mix to dissolve. Adjust pH to 8.0 using concentrated HCl (10 M HCl). Store at room

temperature.

B. Proteinase K stock solution (20x, 400 µg/ml in TE buffer, pH 8.0)

Proteinase K, 4 mg

TE buffer, pH 8.0, (Reagent A) 10 ml Mix well. Store in aliquots at -20°C.

C. Proteinase K working solution (1x, 20 µg/ml in TE buffer, pH 8.0)

Proteinase K stock solution (20x), (Reagent B) 1 ml

TE Buffer, pH 8.0, (Reagent A) 19 ml

Mix well. Discard working solution after use.

Method

- 1. Dewax paraffin sections and rehydrate using preferred procedure.
- 2. Cover sections completely with Proteinase K working solution and incubate for 3 minutes



at RT.

- 3. Rinse sections with Phosphate Buffered Saline (PBS).
- 4. Proceed with serum blocking and preferred staining protocol.

2. Heat-mediated antigen retrieval using citrate buffer, pH 6.0 (Recommended for tissues fixed for 7 days or more in neutral buffered formalin, NBF): Reagent

Citrate buffer (10 mM citric acid, pH 6.0)

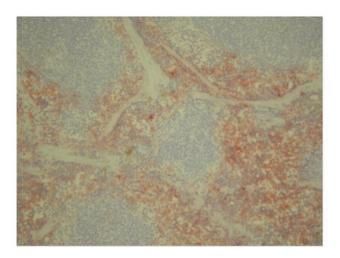
Citric acid (anhydrous), 1.92 g Distilled water, 1000 ml

Mix to dissolve. Adjust pH to 6.0 with 1 M NaOH (be sure to mix well). Store this solution at RT for 3 months, or at 4°C for longer usage.

Method

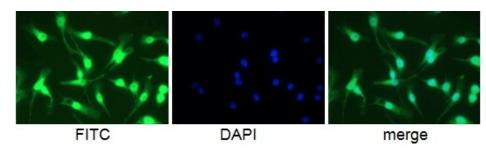
- 1. Dewax paraffin sections and rehydrate using preferred protocol.
- 2. Pre-heat sodium citrate buffer in a staining vessel to 95-100°C.
- 3. Immerse slides in the citrate buffer and incubate for 10 minutes at 95-100°C. Check the citrate buffer level, add more if necessary, and then incubate for a further 10 minutes at 95-100°C.
- 4. Allow sections to cool for 20 minutes.
- 5. Rinse sections with PBS.
- 6. Proceed with serum blocking and preferred staining protocol.

Product images:

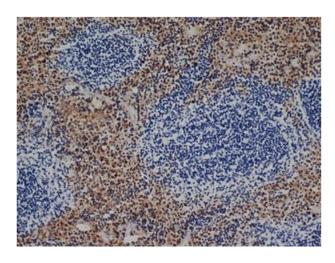


Mouse Spleen Sections stained with Rat anti Mouse F4/80 Antibody Cat.No [BM4008]

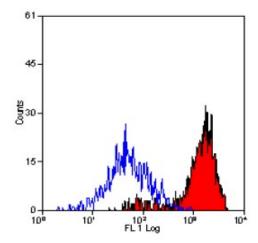




Mouse anti-Macrophage F4/80 antigen antibody Cat.-No [BM4008F] (5 μ g/ml) on Raw 204.4 cells. Cells were fixed in 1% PFA, permeabilized in 0.25%Triton X 100 in PBS, blocked in 1% BSA in PBS.

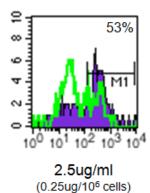


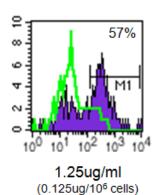
Frozen Mouse Spleen stained with Rat anti Mouse F4/80 Antibody Cat.No [BM4008] using [SP1020HRP] as the secondary

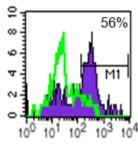


Staining of Mouse peritoneal macrophages with Rat Anti Mouse F4/80 Antigen ([BM4008]).









0.625ug/ml (0.0625ug/10⁶ cells)

Mouse anti-Macrophage F4/80 antigen antibody Cat.-No [BM4008F] on thioglycollate elicited mouse peritoneal macrophages. Purple: [BM4008F]; Green: Isotype control SM19FS; Percentages reflect % positive after subtraction of negative control, using M1 marker.