

Datasheet for ABIN111857
anti-F4/80 antibody (PE)



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1 Image

Overview

Quantity:	100 tests
Target:	F4/80 (EMR1)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This F4/80 antibody is conjugated to PE
Application:	Flow Cytometry (FACS), Immunofluorescence (IF)

Product Details

Immunogen:	Thioglycollate stimulated peritoneal cavity macrophages from C57/BL mice. Remarks: Spleen cells from immunised HOB2 rats were fused with cells of the mouse NS-1 mouse myeloma cell line.
Clone:	Cl:A3-1
Isotype:	IgG2b
Specificity:	This antibody recognises the F4/80 antigen. Clone Cl:A3-1 has been reported to modulate cytokine levels released in response to <i>Listeria monocytogenes</i> (5). We recommend the use of Cat.-No BM4008LE for this purpose.
Cross-Reactivity (Details):	Species reactivity (tested):Mouse.
Purification:	Affinity Chromatography on Protein A

Target Details

Target:	F4/80 (EMR1)
Alternative Name:	Macrophage F4/80 Antigen (EMR1 Products)
Background:	Murine F4/80 antigen is a 160 kD cell surface glycoprotein that is a 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 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 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 lymph node. 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: Cell surface glycoprotein EMR1, EMR1 hormone receptor, Emr1, Gpf480
Gene ID:	13733
NCBI Accession:	NP_034260
UniProt:	Q61549

Application Details

Application Notes:	Flow Cytometry: use 10 µL of neat antibody to label 10⁶ cells in 100 µL. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

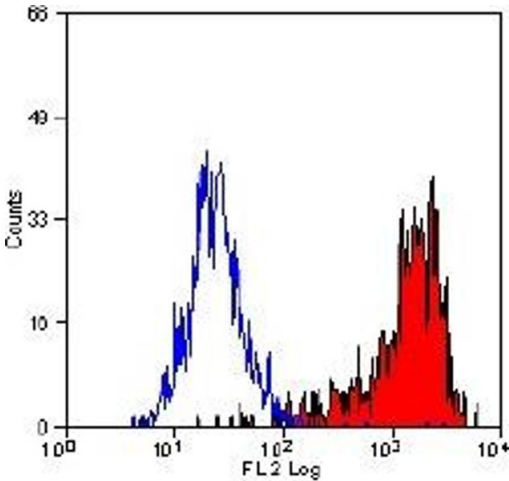
Handling

Reconstitution:	Restore with 1 mL distilled water.
Buffer:	PBS, pH 7.4, 0.09 % Sodium Azide, 1 % BSA, 5 % Sucrose
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	This product is photosensitive and should be protected from light

Handling

Storage:	4 °C
Storage Comment:	Prior to and following reconstitution store the antibody undiluted at 2-8 °C. DO NOT FREEZE!

Images



Flow Cytometry

Image 1. Staining of mouse J774 cells with RAT ANTI MOUSE F4/80 ANTIGEN - RPE (ABIN111857).