

Datasheet for ABIN111849
anti-F4/80 antibody (Biotin)



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Overview

Quantity:	0.1 mg
Target:	F4/80 (EMR1)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This F4/80 antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

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.
Clone:	Cl:A3-1
Isotype:	IgG2b
Specificity:	This antibody recognizes the Murine F4/80 antigen, a 160 kDa cell surface glycoprotein. Clone Cl:A3-1 has been reported to modulate cytokine levels released in response to Listeria monocytogenes (Ref.5).
Cross-Reactivity (Details):	Species reactivity (tested):Mouse.
Purification:	Affinity Chromatography on Protein G.

Target Details

Target:	F4/80 (EMR1)
Alternative Name:	Macrophage F4/80 Antigen (EMR1 Products)
Background:	F4/80 antigen is a member of the EGF-TM7 family of proteins which shares 68 % overall amino acid identity with human EGF module-containing mucinlike 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 to 1/10 diluted antibody to stain 10⁶ cells in 100 µL. Immunohistology on Frozen and Paraffin Embedded Sections: For paraformaldehyde/paraffin tissue, pretreatment by trypsinisation for 20-30 minutes is required. Use 1/50 on cryosections, 1/20 on paraffin sections. Western Blot. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	0.1 mg/mL
Buffer:	PBS containing 1 % BSA as stabilizer and 0.09 % Sodium Azide as preservative.
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

Handling Advice:	Avoid repeated freezing and thawing.
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Storage:	4 °C/-20 °C
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Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.
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