Datasheet for ABIN488117

anti-F4/80 antibody

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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 un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Radioimmunoassay (RIA), Immunoelectron Microscopy (IEM)

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 recognises 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 to Listeria monocytogenes (Ref.5). We recommend the use of BM4008LE for this purpose.
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 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 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: Cell surface glycoprotein EMR1, EMR1 hormone receptor, Emr1, Gpf480
Gene ID:	13733
NCBI Accession:	NP_034260
UniProt:	Q61549

Application Details

Application Notes:	RIA. Western Blot. Immunoprecipitation. Flow Cytometry: Use 10 µL of 1/50-1/100 diluted antibody to label 10^6 cells in 100 µL. Immunohistochemistry on Frozen and Paraffin Embedded and Resin Sections. Thisproduct requires pre-treatment of paraffin sections (Proteinase K is recommended fortissues fixed for less than 24 hours. Citrate buffer pH 6.0 is recommended for tissues fixedfor more than 24 hours).
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	PBS, pH 7.4, 0.09 % Sodium Azide
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:	Avoid repeated freezing and thawing.

Handling

Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Publications

Product cited in:

Schindewolffs, Breves, Buettner, Hadamitzky, Pabst: "VEGF-C improves regeneration and lymphatic reconnection of transplanted autologous lymph node fragments: An animal model for secondary lymphedema treatment." in: **Immunity, inflammation and disease**, Vol. 2, Issue 3, pp. 152-61, (2014) (PubMed).

Cuzi?, Bosnar, Kramari?, Ferenci?, Markovi?, Glojnari?, Erakovi? Haber: "Claudin-3 and Clara cell 10 kDa protein as early signals of cigarette smoke-induced epithelial injury along alveolar ducts. " in: **Toxicologic pathology**, Vol. 40, Issue 8, pp. 1169-87, (2012) (PubMed).

Nakao, Zandi, Faez, Kohno, Hafezi-Moghadam: "Discontinuous LYVE-1 expression in corneal limbal lymphatics: dual function as microvalves and immunological hot spots." in: **FASEB journal : official publication of the Federation of American Societies for Experimental Biology**, Vol. 26, Issue 2, pp. 808-17, (2012) (PubMed).

Weisel, Appelt, Schneider, Horlitz, van Rooijen, Korner, Mach, Winkler: "Unique requirements for reactivation of virus-specific memory B lymphocytes." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 185, Issue 7, pp. 4011-21, (2010) (PubMed).

Hakroush, Moeller, Theilig, Kaissling, Sijmonsma, Jugold, Akeson, Traykova-Brauch, Hosser, Hähnel, Gröne, Koesters, Kriz: "Effects of increased renal tubular vascular endothelial growth factor (VEGF) on fibrosis, cyst formation, and glomerular disease." in: **The American journal of pathology**, Vol. 175, Issue 5, pp. 1883-95, (2010) (PubMed).

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