

ARG55553
anti-EMR1 F4 / 80 antibody [BM8]Package: 50 µg
Store at: -20°C

Summary

Product Description	Rat Monoclonal antibody [BM8] recognizes EMR1 F4 / 80
Tested Reactivity	Hu, Ms
Tested Application	FACS, IHC-Fr, WB
Specificity	Recognizes a 125 kDa of mouse extracellular macrophage membrane molecule, highly restricted to mature macrophage subpopulations residing in tissue. Species Crossreactivity: human heart macrophages.
Host	Rat
Clonality	Monoclonal
Clone	BM8
Isotype	IgG2a
Target Name	EMR1 F4 / 80
Species	Mouse
Immunogen	BALB/c macrophages obtained from 14 day old bone marrow cell cultures.
Conjugation	Un-conjugated
Alternate Names	EGF-like module-containing mucin-like hormone receptor-like 1; EMR1 hormone receptor; Emr1; DD7A5-7; Adhesion G protein-coupled receptor E1; Ly71; EGF-like module receptor 1; Gpf480; F4/80; Cell surface glycoprotein F4/80; EGF-TM7; TM7LN3

Application Instructions

Application table	Application	Dilution
	FACS	1:50
	IHC-Fr	1:50
	WB	1:50
Application Note	WB: 1:50 detects F4/80 in mouse bone marrow derived macrophages under non-reduced conditions. Reduction with 2-mercaptoethanol destroys BM8 antigen. Flow Cytometry: Fix with 1% paraformaldehyde. IHC-Fr: Tissue embedded in OCT Tissue Tec, fixed with acetone for 10 minutes at RT. Incubate with PBS, 0.02M sodium azide, 0.1% H2O2 for 10 minutes at RT to destroy endogenous peroxidase. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	IHC-Fr: Spleen	

Properties

Form	Liquid
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Purification	Purification with Protein G.
Buffer	PBS, 0.02% Sodium azide and 0.1% BSA
Preservative	0.02% Sodium azide
Stabilizer	0.1% BSA
Concentration	0.1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 13733 Mouse GeneID: 2015 Human Swiss-port # Q14246 Human Swiss-port # Q61549 Mouse
Gene Symbol	Adgre1
Gene Full Name	adhesion G protein-coupled receptor E1
Background	EMR1 F4/80 has a domain resembling seven transmembrane G protein-coupled hormone receptors (7TM receptors) at its C-terminus. The N-terminus of the encoded protein has six EGF-like modules, separated from the transmembrane segments by a serine/threonine-rich domain, a feature reminiscent of mucin-like, single-span, integral membrane glycoproteins with adhesive properties. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]
Function	EMR1 F4/80: Orphan receptor involved in cell adhesion and probably in cell-cell interactions specifically involving cells of the immune system. May play a role in regulatory T-cells (Treg) development. [UniProt]
Highlight	Related products: EMR1 F4/80 antibodies ; EMR1 F4/80 Duos / Panels ; Anti-Rat IgG secondary antibodies ; Related news: Exploring Antiviral Immune Response
Research Area	Mouse Inflammatory Cell Marker antibody; Macrophage Marker antibody
Calculated Mw	98 kDa