

Product datasheet for **BM4007F**

Adgre1 Rat Monoclonal Antibody [Clone ID: BM8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	BM8
Applications:	FC, IF
Recommended Dilution:	Has been described to work in FACS . Suggested Positive Control: Mouse monocytes.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Cultured macrophages
Specificity:	This antibody recognizes the F4/80 antigen on major subpopulations of resident tissue macrophages (Schaller et al. 2002). Antigen Distribution Isolated Cells: The antigen is expressed in vitro on over 80% of M-CSF stimulated bone marrow derived macrophages, after a few days of culture. It is absent from granulocytes, lymphocytes and thrombocytes. Tissue Sections: The antigen is detected on tissue fixed macrophages in all organs tested so far (spleen, lymph nodes, thymus, liver, skin) except lung. It is also present on Langerhans cells in the skin and Kupffer cells in the liver. In complete Freund's adjuvant induced granulomas, the antigen is expressed by inflammatory macrophages, but is absent from epitheloid cells.
Formulation:	PBS, pH 7.2 Label: FITC State: Liquid purified Ig fraction Stabilizer: 10 mg/ml BSA Preservative: 0.09% Sodium Azide
Concentration:	0.1 mg/ml
Purification:	Affinity Chromatography
Conjugation:	FITC



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Storage: Store undiluted at 2-8°C.
DO NOT FREEZE!
 This product is photosensitive and should be protected from light.

Stability: Shelf life: one year from despatch.

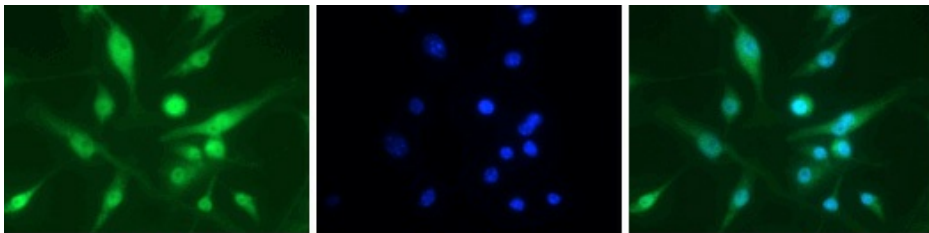
Gene Name: adhesion G protein-coupled receptor E1

Database Link: [Entrez Gene 13733 Mouse Q61549](#)

Background: The antigen expression increases upon maturation of macrophage precursors in bone marrow and blood as well as in ontogeny. BM8 is the only macrophage marker that is able to distinguish non-destructive from destructive inflammation processes in the pancreas and has been shown to be a unique histological marker of the progression from peri-insulinitis to β -cell destruction and diabetes in a mouse diabetes model.

Synonyms: Emr1, Gpf480

Product images:

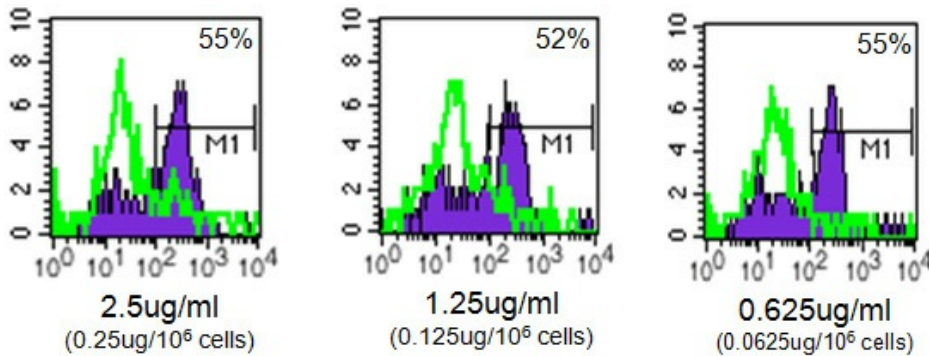


FITC

DAPI

merge

Mouse anti-Macrophage F4/80 antigen antibody. (5 ug/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.



Mouse anti-Macrophage F4/80 antigen antibody. on thioglycollate elicited mouse peritoneal macrophages. Purple: ; Green: Isotype control SM15F; Percentages reflect % positive after subtraction of negative control, using M1 marker.

	BM8 (anti F4/80)	MOMA-2	ER-BMDM 1
Monocytes	+	+	-
Kupffer cells	+	+	-
Langerhans cells	+	+/-	
Tingible body macrophages	-	+	
Interdigitating cells	-	+/-	+
Dendritic cells	-	+/-	+
Microglial cells		-	-
Marginal zone macrophages	-	-	
Marginal metallophilic cells	-	-	-
Pneumocytes type II			+
Alveolar lavage cells	(66%)*		26%
Resident peritoneal cells (PCs)	51%		34%
Thioglycollate elicited PCs			
time after injection: 4hours	81%		79%
time after injection: 8 hours	28%		15%
Bone Marrow (BM) cells	37%	14%	5%
BM cells after 7 days with M-CSF	96%	30%	91%

Comparison of different mature macrophage markers

*could not be confirmed on alveolar macrophages by immunohistochemistry (IHC)
Kraal et al. (1987) modified and P.J.M. Leenen personal communication