For Research Use Only

mouse F4/80 Polyclonal antibody

Catalog Number:28463-1-AP 155 Publications

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Basic Information

Catalog Number:
28463-1-AP

Size:
150ul , Concentration: 500 μg/ml by Nanodrop and 367 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG28252

GenBank Accession Number:
NM_010130

GeneID (NCBI):
13733

UNIPROT ID:
Q61549

Full Name:
EGF-like module containing, mucin-like, hormone receptor-like sequence 1

Calculated MW:
102 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IHC 1:4000-1:12000
IF 1:50-1:500

Applications

Tested Applications:
FC, IF, IHC, ELISA

Cited Applications:
WB,IF,FC,IHC

Species Specificity:
Mouse, Rat

Cited Species:
human, rat, mouse, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : mouse spleen tissue, rat spleen tissue, rat liver tissue, mouse lung tissue, mouse heart tissue, mouse brain tissue, mouse liver tissue, mouse small intestine tissue

IF : mouse spleen tissue, mouse liver tissue, RAW 264.7 cells

Background Information

Mouse F4/80, also named as EMR1 and Gpf480, is a 160kd cell surface glycoprotein which is a member of the EGF TM7 family. The F4/80 molecule is solely expressed on the surface of macrophages and serves as a marker for mature macrophage tissues, including Kupffer cells in liver, splenic red pulp macrophages, brain microglia, gut lamina propria and Langerhans cells in the skin. The function of F4/80 is unclear, but it is speculated to be involved in macrophage adhesion events, cell migration or as a G protein-coupled signaling component of macrophages.

Notable Publications

Author	Pubmed ID	Journal	Application
Yiran Song	36156376	Liver Int	IF
Tingting Qin	36225585	Front Pharmacol	IHC
Chao Jin	36188529	Front Pharmacol	IHC

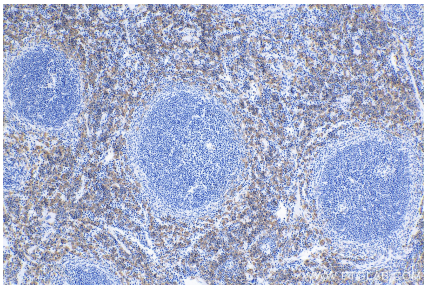
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

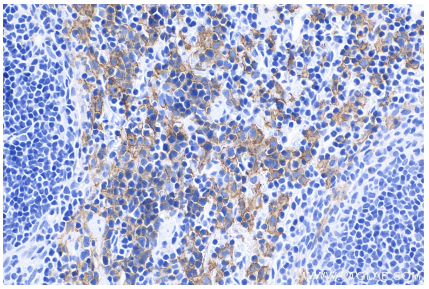
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

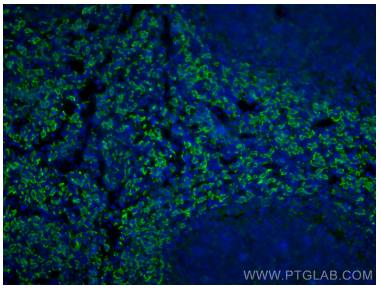
Selected Validation Data



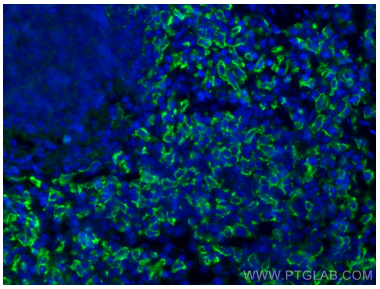
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 28463-1-AP (F4/80 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 28463-1-AP (F4/80 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using F4/80 antibody (28463-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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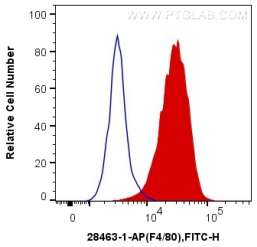

1X10^6 RAW 264.7 cells were intracellularly stained with 0.4 ug Anti-Mouse F4/80 (28463-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).