

For Research Use Only

F4/80 Recombinant antibody

Catalog Number: 81668-1-RR **2 Publications**



Basic Information

Catalog Number: 81668-1-RR	GenBank Accession Number: NM_010130	Purification Method: Protein A purification
Size: 750 ug/ml	GeneID (NCBI): 13733	CloneNo.: 2P18
Source: Rabbit	UNIPROT ID: Q61549	Recommended Dilutions: IHC 1:2000-1:3000 IF-P 1:750-1:3000 IF-Fro 1:50-1:500 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: EGF-like module containing, mucin-like, hormone receptor-like sequence 1	
Immunogen Catalog Number: AG28252	Calculated MW: 102 kDa	

Applications

Tested Applications: IHC, IF/ICC, IF-P, IF-Fro, ELISA	Positive Controls: IHC : mouse spleen tissue, mouse liver tissue IF-P : mouse spleen tissue, RAW 264.7 cells IF-Fro : mouse spleen tissue, IF/ICC : RAW 264.7 cells,
Cited Applications: IF	
Species Specificity: mouse	
Cited Species: mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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
C Grenier	39484448	bioRxiv	IF
Chunxiang Shen	39321022	Cell Rep	IF

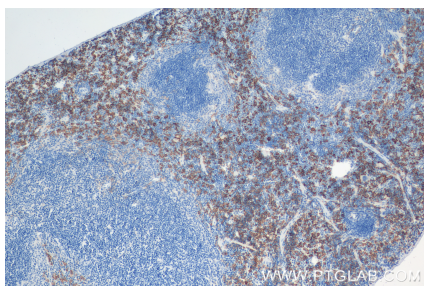
Storage

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

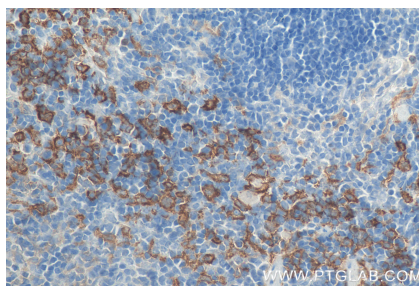
For technical support and original validation data for this product please contact:
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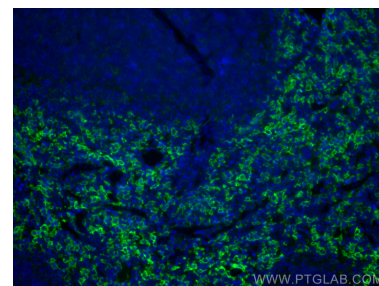
Selected Validation Data



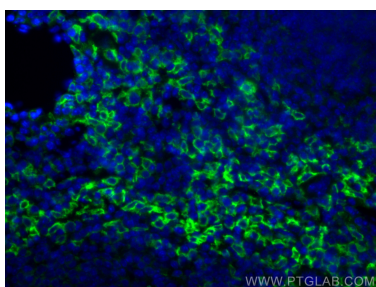
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 81668-1-RR (F4/80 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



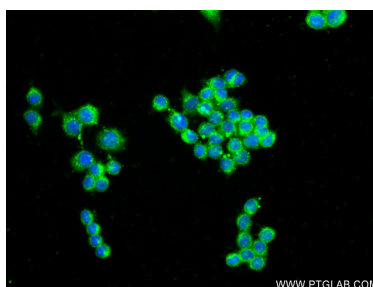
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 81668-1-RR (F4/80 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



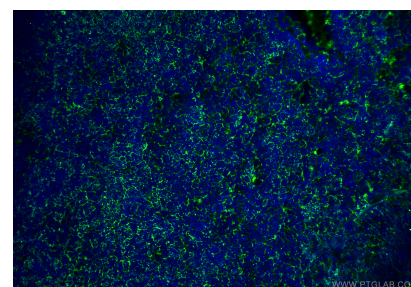
Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using F4/80 antibody (81668-1-RR, Clone: 2P18) at dilution of 1:1500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



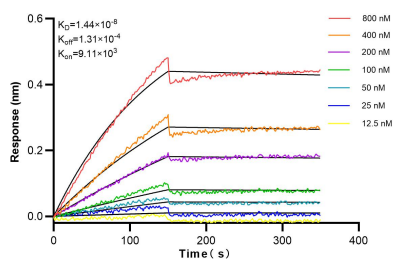
Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using F4/80 antibody (81668-1-RR, Clone: 2P18) at dilution of 1:1500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed RAW 264.7 cells using F4/80 antibody (81668-1-RR, Clone: 2P18) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse spleen tissue using F4/80 antibody (81668-1-RR, Clone: 2P18) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 81668-1-RR against Mouse F4/80 were performed. The affinity constant is 14.4 nM.