

For Research Use Only

# F4/80 Polyclonal antibody

Catalog Number: 28463-1-AP **184 Publications**



## Basic Information

|   |   |  |
|---|---|--|
| <b>Catalog Number:</b><br>28463-1-AP  | <b>GenBank Accession Number:</b><br>NM_010130   | <b>Purification Method:</b><br>Antigen affinity purification         |
| <b>Size:</b><br>150ul, Concentration: 500 µg/ml by Nanodrop and 367 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>13733  | <b>Recommended Dilutions:</b><br>IHC 1:4000-1:16000<br>IF 1:50-1:500 |
| <b>Source:</b><br>Rabbit  | <b>UNIPROT ID:</b><br>Q61549  |  |
| <b>Isotype:</b><br>IgG  | <b>Full Name:</b><br>EGF-like module containing, mucin-like, hormone receptor-like sequence 1 |  |
| <b>Immunogen Catalog Number:</b><br>AG28252   | <b>Calculated MW:</b><br>102 kDa  |  |

## Applications

### Tested Applications:

IF, IHC, ELISA

### Cited Applications:

WB, IF, 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 160-kDa 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

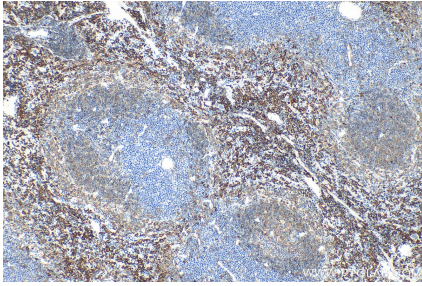
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T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

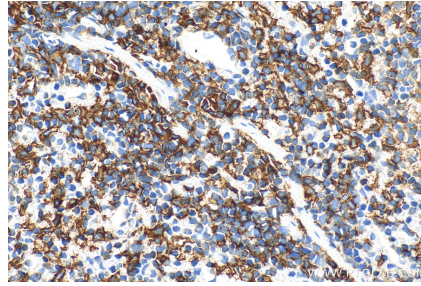
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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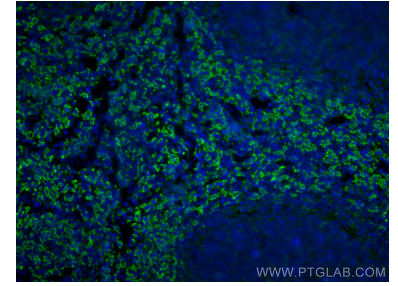
## Selected Validation Data



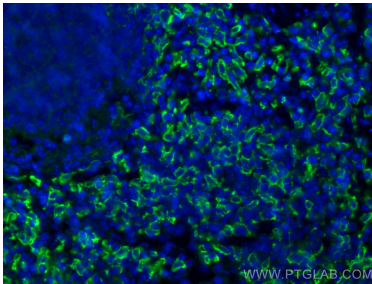
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 28463-1-AP (F4/80 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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).