

F4/80 Recombinant Antibody [PSH01-87] - Guinea pig IgG2 (Chimeric) - BSA and Azide free

**HA610382**



<b>Product Type:</b>	Recombinant Chimeric Antibody, primary antibodies
<b>Species reactivity:</b>	Mouse
<b>Applications:</b>	WB, IHC-Fr
<b>Molecular Wt:</b>	Predicted band size: 102 kDa
<b>Clone number:</b>	PSH01-87

**Description:** EGF-like module-containing mucin-like hormone receptor-like 1 also known as F4/80 is a protein encoded by the ADGRE1 gene. EMR1 is a member of the adhesion GPCR family. Adhesion GPCRs are characterized by an extended extracellular region often possessing N-terminal protein modules that is linked to a TM7 region via a domain known as the GPCR-Autoproteolysis INDucing (GAIN) domain. EMR1 expression in human is restricted to eosinophils and is a specific marker for these cells. The murine homolog of EMR1, F4/80, is a well-known and widely used marker of murine macrophage populations. The N-terminal fragment (NTF) of EMR1 contains 4-6 Epidermal Growth Factor-like (EGF-like) domains in human and 4-7 EGF-like domains in the mouse. Utilizing F4/80 knockout mice, Lin et al. showed that F4/80 is not necessary for the development of tissue macrophages but is required for the induction of efferent CD8+ regulatory T cells needed for peripheral tolerance.

**Immunogen:** Recombinant protein within mouse F4/80 aa 1-650 / 931.

**Positive control:** Mouse spleen tissue lysate.

**Subcellular location:** Cell membrane.

**Database links:** SwissProt: Q61549 Mouse

**Recommended Dilutions:**

<b>WB</b>	1:2,000
<b>IHC-Fr</b>	1:200

**Storage Buffer:** 1\*PBS (pH7.4).

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

**Hangzhou Huaan Biotechnology Co., Ltd.**

Orders:0086-571-88062880

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## Images

**Fig1:** Western blot analysis of F4/80 on different lysates with Guinea pig anti-F4/80 antibody (HA610382) at 1/2,000 dilution.

Lane 1: L-929 cell lysate (negative)

Lane 2: Mouse spleen tissue lysate (no heat)

Notice: no heat means the lysate is not boiled.

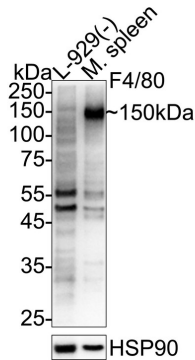
Lysates/proteins at 15 µg/Lane.

Predicted band size: 102 kDa

Observed band size: 150 kDa

Exposure time: 42 seconds; ECL: K1801;

4-20% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA610382) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Rabbit anti-Guinea pig IgG H&L - HRP Secondary Antibody (HA1021) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig2:** Application: IHC-Fr

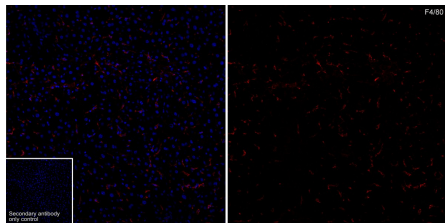
Species: Mouse

Site: liver

Sample: Frozen section

Antibody concentration: 1/200

Antigen retrieval: Not required



**Fig3:** Application: IHC-Fr

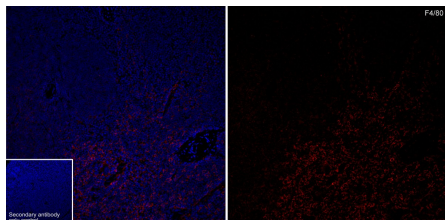
Species: Mouse

Site: spleen

Sample: Frozen section

Antibody concentration: 1/200

Antigen retrieval: Not required



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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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### Background References

1. Shin AE et al. F4/80(+)Ly6C(high) Macrophages Lead to Cell Plasticity and Cancer Initiation in Colitis. *Gastroenterology*. 2023 Apr
2. Deng R et al. Periosteal CD68(+) F4/80(+) Macrophages Are Mechanosensitive for Cortical Bone Formation by Secretion and Activation of TGF-beta1. *Adv Sci (Weinh)*. 2022 Jan

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