

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

HA601567



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

WB	1:2,000
IHC-Fr	1:200

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

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Images

Fig1: Western blot analysis of F4/80 on different lysates with Guinea pig anti-F4/80 antibody (HA601567) 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.

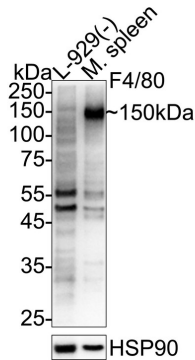
Lysates/proteins at 15 µg/Lane.

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 (HA601567) 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

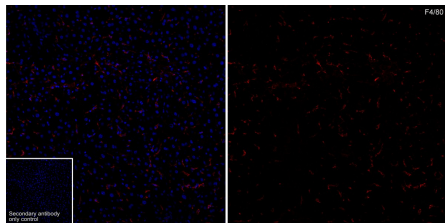


Fig3: Application: IHC-Fr

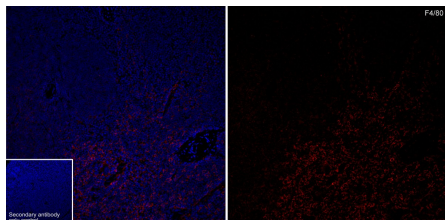
Species: Mouse

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".

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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