

Anti-F4/80 Antibody [4G4]

RT1212



Product Type:	Rat monoclonal IgG2a, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IF, IHC-P, FC
Molecular Wt:	160 kDa
Clone number:	4G4

Description: The epidermal growth factor (EGF)-TM7 family constitutes a group of class B G-protein coupled receptors, which includes CD97, EMR1 (EGF-like molecule containing mucin-like hormone receptor 1, designated F4/80 in mouse), EMR2, EMR3, FIRE, and ETL. These family members are characterized by an extended extracellular region with several N-terminal EGF domains, and are predominantly expressed on cells of the immune system. The EGF-TM7 protein family are encoded by a gene cluster on human chromosome 19p13. 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. F4/80/EMR1 undergoes extensive N-linked glycosylation as well as some O-linked glycosylation. The function of F4/80/EMR1 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.

Immunogen: peptide

Subcellular location: Cell membrane

Database links: SwissProt: Q61549 Mouse

Recommended Dilutions:

WB	1:100-1:1,000
IF	1:50-1:500
IHC-P	1:50-1:500
FC	1 µg per 1 x 10 ⁶ cells

Storage Buffer: 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Storage Instruction: Store at +4°C

Purity: Immunogen affinity purified.

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Images

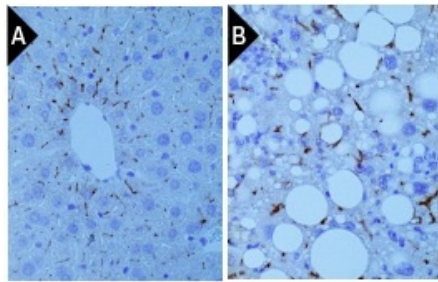


Fig1: F4/80 Antibody: RT1212. Immunoperoxidase staining of formalin fixed, paraffin-embedded liver tissue of normal mouse fed with low fat diet (A) or choline-deficient high fat diet (B) showing F4/80 staining in Kupffer cells.

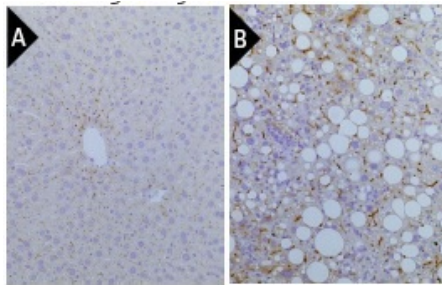


Fig2: F4/80 Antibody: RT1212. Immunoperoxidase staining of formalin fixed, paraffin-embedded liver tissue of normal mouse fed with low fat diet (A) or choline-deficient high fat diet (B) showing F4/80 staining in Kupffer cells.

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

Background References

1. Mouline, CC. et al. 2012. Monocytes differentiation upon treatment with a peptide corresponding to the C-terminus of activated T cell-expressed Tirc7 protein. *J. Cell. Physiol.* 227: 3088-3098.
2. Zheng, JL. et al. 2012. Cannabinoid receptor type 2 is time-dependently expressed during skin wound healing in mice. *Int. J. Legal Med.* 126: 807-814.

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