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[Primary Antibody]

Recombinant Rabbit Anti-ADGRE1 Monoclonal Antibody

Catalog Number: SLA0386M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rat
Isotype:	Rat IgG2b, k
Clonality:	Monoclonal
Clone No.:	5G1
Target:	ADGRE1
Purification:	affinity purified by Protein G
Storage:	0.01M PBS (pH7.4). Shipped at 4℃. Store at -20℃ for one year. Avoid repeated freeze/thaw cycles.
Applications:	Flow-Cyt () Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Predicted MW.:	95 kDa
Subcellular Location:	Membrane
Background:	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 (1–3). 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 (1–3). The EGF-TM7 protein family are encoded by a gene cluster on human chromosome 19p13 (1,3,4). 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 (1). F4/80/EMR1 undergoes extensive N-linked glycosylation as well as some O-linked glycosylation (5,6). 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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.