

Datasheet for ABIN1425227
anti-F4/80 antibody (PE-Cy5)



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Overview

Quantity:	100 µL
Target:	F4/80 (EMR1)
Reactivity:	Mouse, Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This F4/80 antibody is conjugated to PE-Cy5
Application:	Western Blotting (WB)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human EMR1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	F4/80 (EMR1)
Alternative Name:	EMR1 (EMR1 Products)
Background:	Synonyms: F4/80, Cell surface glycoprotein EMR1, Cell surface glycoprotein F4/80, DD7A5 7, Egf like module containing mucin like hormone receptor like 1, Egf like module containing mucin like hormone receptor like sequence 1, EGF like module receptor 1, EGF TM7, EGF-like module receptor 1, EGF-like module-containing mucin-like hormone receptor-like 1, EGFTM7,

Target Details

EMR 1, EMR1, EMR-1, EMR1 hormone receptor, EMR1_HUMAN, Gpf480, Ly71, Lymphocyte antigen 71, TM7LN3.

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.

Molecular Weight: 95kDa

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months