



Anti-EMR1 monoclonal antibody, clone Cl:A3-1 [Biotin] (CABT-47620RM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Rat anti mouse F4/80 antibody, clone Cl:A3-1, recognises the murine F4/80 antigen, a 160 kD cell surface glycoprotein that is a member of the EGF-TM7 family of proteins which shares 68% overall amino acid identity with human EGF module-containing mucin-like hormone receptor 1 (EMR1). Expression of F4/80 is heterogeneous and is reported to vary during macrophage maturation and activation. The F4/80 antigen is expressed on a wide range of mature tissue macrophages including Kupffer cells, Langerhans, microglia, macrophages located in the gut lamina propria, peritoneal cavity, lung, thymus, bone marrow stroma and macrophages in the red pulp of the spleen. F4/80 expression has also been reported on a subpopulation of dendritic cells but is absent from macrophages located in T cell areas of the spleen and lymph node. The ligands and biological functions of the F4/80 antigen have not yet been determined but recent studies suggest a role for F4/80 in the generation of efferent CD8+ve regulatory T cells. Clone Cl:A3-1 has been reported to modulate cytokine levels released in response to *Listeria monocytogenes*. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells in 100ul.

Specificity	EMR1
Immunogen	Thioglycollate stimulated peritoneal macrophages from C57BL/6 mice.
Isotype	IgG2b
Source/Host	Rat
Species Reactivity	Mouse
Clone	Cl:A3-1
Conjugate	Biotin
Applications	FC

Format	Purified IgG conjugated to Biotin - liquid
Size	100 µg
Preservative	See individual product datasheet
Storage	in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Emr1 EGF-like module containing, mucin-like, hormone receptor-like sequence 1 [Mus musculus (house mouse)]
Official Symbol	EMR1
Synonyms	EMR1; EGF-like module containing, mucin-like, hormone receptor-like sequence 1; Ly71; F4/80; Gpf480; TM7LN3; DD7A5-7; EGF-TM7; EGF-like module-containing mucin-like hormone receptor-like 1; EMR1 hormone receptor; lymphocyte antigen 71; EGF-like module rec
Entrez Gene ID	13733
Protein Refseq	NP_034260
Chromosome Location	17 D; 17 29.8 cM
Pathway	GPCRs, Class B Secretin-like; Non-odorant GPCRs;
Function	G-protein coupled receptor activity; calcium ion binding; signal transducer activity; transmembrane signaling receptor activity;