



# Rat Anti-Mouse F4/80 Monoclonal antibody, clone Cl:A3-1 (CABT-L4474)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	The Cl:A3-1 monoclonal antibody reacts with mouse F4/80 also known as EMR1. F4/80 is a 160 kDa membrane glycoprotein belonging to the EGF-TM7 family.
<b>Target</b>	Mouse F4/80
<b>Immunogen</b>	C57BL/6 mouse thioglycollate stimulated peritoneal macrophages
<b>Isotype</b>	IgG2b, K
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	Cl:A3-1
<b>Purification</b>	Protein G purified. Purity>95%. Determined by SDS-PAGE
<b>Conjugate</b>	Functional Grade
<b>Applications</b>	in vivo Monocyte/Macrophage depletion, FuncS, Immunohistochemistry (paraffin), IHC-F, FC
<b>Molecular Weight</b>	150 kDa
<b>Format</b>	0.2 µM filtered liquid. Purified from tissue culture supernatant in an animal free facility
<b>Concentration</b>	Lot specific
<b>Size</b>	5 mg
<b>Buffer</b>	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free]

Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay  
Related dilution buffer: CABT-LB04

<b>Preservative</b>	None
<b>Storage</b>	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	The CI:A3-1 monoclonal antibody reacts with mouse F4/80 also known as EMR1. F4/80 is a 160 kDa membrane glycoprotein belonging to the EGF-TM7 family. F4/80 is expressed on most tissue macrophages including peritoneal, lung, gut, thymus and splenic red pulp macrophages, as well as Kuffer cells, Langerhans cells, bone marrow stromal cells, and a subset of dendritic cells. F4/80's cognate ligand has not been identified however studies in mice have shown that F4/80 is important for cytokine production and induction regulatory T cells.
<b>Keywords</b>	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 receptor 1;cell surface glycoprotein F4/80;

## GENE INFORMATION

<b>Official Symbol</b>	EGF-like module containing, mucin-like, hormone receptor-like sequence 1
<b>Synonyms</b>	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 receptor 1; cell surface glycoprotein F4/80;
<b>References</b>	Wang, W., et al. (2018). "RIP1 Kinase Drives Macrophage-Mediated Adaptive Immune Tolerance in Pancreatic Cancer." <i>Cancer Cell</i> 34(5): 757-774 e757. PubMed;