



# Anti-Fcgr1 polyclonal antibody (CPB-162RM)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	Rabbit Anti-Fcgr1 Polyclonal Antibody
<b>Antigen Description</b>	<p>High affinity immunoglobulin gamma Fc receptor I, also known as FCGR1 and CD64, is an integral membrane glycoprotein and a member of the immunoglobulin superfamily. CD64 is a high affinity receptor for the Fc region of IgG gamma and functions in both innate and adaptive immune responses. Receptors that recognize the Fc portion of IgG function in the regulation of immune response and are divided into three classes designated CD64, CD32, and CD16. CD64 is structurally composed of a signal peptide that allows its transport to the surface of a cell, three extracellular immunoglobulin domains of the C2-type that it uses to bind antibody, a hydrophobic transmembrane domain, and a short cytoplasmic tail. CD64 is constitutively found on only macrophages and monocytes, but treatment of polymorphonuclear leukocytes with cytokines like IFN<math>\gamma</math> and G-CSF can induce CD64 expression on these cells. The inactivation of the mouse CD64 resulted in a wide range of defects in antibody Fc-dependent functions. Mouse CD64 is an early participant in Fc-dependent cell activation and in the development of immune responses.</p>
<b>Specificity</b>	Mouse FCGR1 / CD64.
<b>Target</b>	Fcgr1
<b>Immunogen</b>	Recombinant mouse FCGR1 protein.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	N/A
<b>Conjugate</b>	Unconjugated
<b>Preparation</b>	Produced in rabbits immunized with purified, human cell-derived, recombinant mouse FCGR1 extracellular domain (Met 1-Pro 297 ). FCGR1 specific IgG was purified by mouse FCGR1

affinity chromatography.

<b>Format</b>	0.2 µm filtered solution in PBS with 5% trehalose.
<b>Size</b>	50 µg
<b>Preservative</b>	None
<b>Storage</b>	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -70°C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Fcgr1 Fc receptor, IgG, high affinity I [ Mus musculus ]</a>
<b>Official Symbol</b>	Fcgr1
<b>Synonyms</b>	FCGR1; Fc receptor, IgG, high affinity I; high affinity immunoglobulin gamma Fc receptor I; fcRI; fc-gamma RI; igG Fc receptor I; IgG high affinity Fc receptor; CD64; IGGHAFc; AI323638; AV092959; FcgammaRI;
<b>Entrez Gene ID</b>	<a href="#">14129</a>
<b>Protein Refseq</b>	<a href="#">NP_034316</a>
<b>Pathway</b>	Fc gamma R-mediated phagocytosis, organism-specific biosystem; Fc gamma R-mediated phagocytosis, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Leishmaniasis, organism-specific biosystem; Leishmaniasis, conserved biosystem; Osteoclast differentiation, organism-specific biosystem;
<b>Function</b>	IgG binding; IgG binding; IgG receptor activity; receptor activity;