

For Research Use Only



# Anti-Human CD64 (10.1) Mouse IgG2a Recombinant Antibody

Catalog Number: 65572-1-MR

## Basic Information

<b>Catalog Number:</b> 65572-1-MR	<b>GenBank Accession Number:</b> BC032634	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , 1 mg/ml	<b>GeneID (NCBI):</b> 2209	<b>CloneNo.:</b> 10.1
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000150337	
<b>Isotype:</b> IgG2a	<b>Full Name:</b> Fc fragment of IgG, high affinity Ia, receptor (CD64)	
	<b>Calculated MW:</b> 374 aa, 43 kDa	

## Applications

**Tested Applications:**  
FC

**Species Specificity:**  
Human

## Background Information

Fcγ receptor comprise a multigene family of integral membrane glycoproteins that exhibit complex activation or inhibitory effects on cell functions after aggregation by complexed immunoglobulin G (IgG) (PMID: 17005690). CD64, also known as Fcγ R1A, is a high-affinity receptor for the Fc region of IgG. It is expressed by monocytes/macrophages, activated neutrophils, dendritic cells, and early myeloid cells (PMID: 23293080; 19642859; 7680917). CD64 functions in both innate and adaptive immune responses.

## Storage

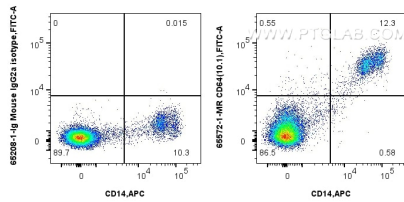
**Storage:**  
Store at 2-8°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.09% sodium azide.

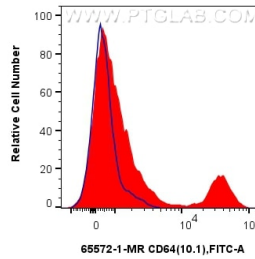
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Anti-Human CD64 Mouse IgG2a Recombinant Antibody (65572-1-MR, Clone: 10.1) or 0.25 ug Mouse IgG2a Isotype Control (65208-1-Ig, Clone: C1.18.4) and CoraLite®488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were then stained with APC Anti-Human CD14. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug Anti-Human CD64 Mouse IgG2a Recombinant Antibody (65572-1-MR, Clone: 10.1) (red) or Mouse IgG2a Isotype Control (65208-1-Ig, Clone: C1.18.4) (blue), and CoraLite®488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.