

For Research Use Only

# Anti-Mouse CD45.2 (104)

Catalog Number: 65072-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 65072-1-Ig	<b>GenBank Accession Number:</b> BC028512	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 500ug , 0.5 mg/ml	<b>GeneID (NCBI):</b> 19264	<b>CloneNo.:</b> 104
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P06800	
<b>Isotype:</b> IgG2a, kappa	<b>Full Name:</b> protein tyrosine phosphatase, receptor type, C	

## Applications

**Tested Applications:**  
FC

**Species Specificity:**  
mouse

## Background Information

CD45, also known as protein tyrosine phosphatase, receptor type C, is a type I transmembrane protein expressed on the surface of all haematopoietic cells with the exception of erythrocytes and platelets (PMID: 3489673; 28615666). CD45 is a pan-haematopoietic cell marker and has been shown to be essential for T- and B-cell activation and signalling (PMID: 9429890; 16378097). Allelic variants of mouse CD45, CD45.1 (Ly5.1) and CD45.2 (Ly5.1), have been established as a marker system to track haematopoietic cells following congenic mouse bone marrow transplants (PMID: 28615666). CD45.2 is the common form and is expressed by most of the established strains, while CD45.1 is found in only a few like the SJL mouse strain (PMID: 3489673).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yunhui Jia	37970714	Arterioscler Thromb Vasc Biol	

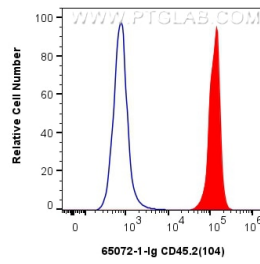
## Storage

**Storage:**  
Store at 2-8°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.09% sodium azide, pH7.3

For technical support and original validation data for this product please contact:  
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## Selected Validation Data



1x10<sup>6</sup> mouse splenocytes were surface stained with 0.5  $\mu$ g Anti-Mouse CD45.2 (65072-1-Ig, Clone: 104) and FITC anti-Mouse IgG2a Antibody at dilution 1:100 (red), or 0.5  $\mu$ g Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) and FITC anti-Mouse IgG2a Antibody at dilution 1:100 (blue). Cells were not fixed.