For Research Use Only

APC Anti-Mouse CD45.2 (104)

Catalog Number:APC-65072

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Basic Information

Catalog Number:
APC-65072

Size:
100ug , 0.2 mg/ml

Source:
Mouse

Isotype:
IgG2a, kappa

GenBank Accession Number:
BC028512

GeneID (NCBI):
19264

UNIPROT ID:
P06800

Full Name:
protein tyrosine phosphatase, receptor type, C

Purification Method:
Affinity purification

CloneNo.:
104

Excitation/Emission maxima wavelengths:
650 nm / 660 nm

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).

Storage

Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
Phosphate based buffer with 0.09% sodium azide and 0.1% gelatin, pH 7.2.

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
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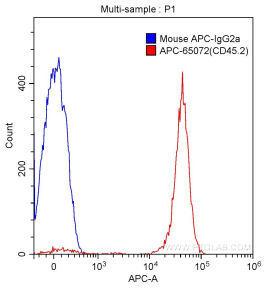
Selected Validation Data



1X10^6 C57BL/6 mouse splenocytes were surface stained with 0.50 ug APC-Anti-Mouse CD45.2 (APC-65072, clone 104) (red) or 0.50 ug APC-mouse IgG2a isotype control (blue). Cells were not fixed.