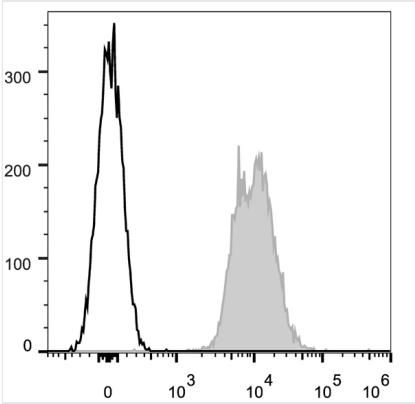
CD45.2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD45.2, Monoclonal Antibody
Full Product Name	Anti-Mouse CD45.2 Monoclonal Antibody (APC Conjugated) [104.2]
Product Gene Name	anti-CD45.2 antibody
Product Synonym Gene Name	Mouse CD45.2
Product Synonym Names	Ly-5.2; LCA
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	104.2
Host	Mouse
Species Reactivity	Mouse
Form/Format	PBS with 0.05% Proclin300, 1% BSA
Concentration	0.5 mg/mL (lot specific)
Preparation and Storage	Store at 2-8 degree C and protect from prolonged exposure to light. Do not freeze.
Matching Pairs	Antibody: CD45.2 (MBS2558862) Isotype Control: IgG2a Clone #C1.18.4 (MBS2557775)
3D Structure	ModBase 3D Structure for P06800
Conjugation	APC
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD45.2 antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-CD45.2 antibody	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is <= 0.5 ug per 10^6 cells in 100 ul volume or 100 ul of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Related Product Information for anti-CD45.2 antibody	CD45.2 is an alloantigen of CD45, expressed by Ly5.2 bearing mouse strains (e.g., A, AKR, BALB/c, CBA/Ca, CBA/J, C3H/He, C57BL, C57BR, C57L, C58, DBA/1, DBA/2, NZB, SWR, 129). CD45, a member of the protein tyrosine phosphatase (PTP) family, is a 180-240 kD glycoprotein expressed on all hematopoietic cells except mature erythrocytes and platelets. There are multiple isoforms in the mouse that play key roles in TCR and BCR signal transduction. These isoforms are very specific to the activation and maturation states of the cell as well as specific cell type. The primary ligands for CD45 are galectin-1, CD2, CD3, CD4, TCR, CD22, and Thy-1.
Other Notes	Small volumes of anti-CD45.2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD45.2 purchase	MBS2558862 is an antibody targeting CD45.2. Also known as Anti-Mouse CD45.2 Monoclonal Antibody (APC Conjugated) [104.2]. Reactive in Mouse. Host: Mouse.



Flow Cytometry (FC/FACS) of anti-CD45.2 antibody
C57BL/6 murine splenocytes are stained with Anti-Mouse CD45.2 Monoclonal Antibody(APC Conjugated)(filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD45.2. It may not necessarily be applicable to this product.

NCBI GI #	1375383927
NCBI GeneID	19264
UniProt Primary Accession #	P06800
UniProt Related Accession #	P06800
NCBI Official Full Name	Receptor-type tyrosine-protein phosphatase C
NCBI Official Synonym Full Names	protein tyrosine phosphatase, receptor type, C
NCBI Official Symbol	Ptprc
NCBI Official Synonym Symbols	loc; B220; Cd45; L-CA; Ly-5; T200; CD45R; Lyt-4
UniProt Protein Name	Receptor-type tyrosine-protein phosphatase C
UniProt Synonym Protein Names	Leukocyte common antigen; L-CA; Lymphocyte antigen 5; Ly-5; T200
UniProt Gene Name	Ptprc
UniProt Synonym Gene Names	Ly-5
UniProt Entry Name	PTPRC_MOUSE
NCBI Protein Information	receptor-type tyrosine-protein phosphatase C
Research Articles on CD45.2	**1.** A point mutation in the natural cytotoxicity receptor 1 (Ncr1) locus fortuitously identified in the CD45.1 strain.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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