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ProSci Incorporated
12170 Flint Place
Poway, CA 92064

Toll Free: +1 (888) 513 9525
Local: +1 (858) 513 2638
Fax: +1 (858) 513 2692

techsupport@prosci-inc.com

CD45.2 Antibody [104] (APC)

CATALOG NUMBER: 76-564

Specifications

SPECIES REACTIVITY:	Mouse
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The 104 monoclonal antibody specifically reacts with the mouse CD45 molecule, the Leukocyte Common Antigen (LCA) which occurs in the alloantigen CD45.2-expressing mouse strains (C57BL/6, CBA, 129, A, AKR, C58, DBA/1, DBA/2, BALB/c, and C3H/He).
HOST SPECIES:	Mouse

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
CONCENTRATION:	0.2 mg/mL
STORAGE CONDITIONS:	The product should be stored undiluted at 4˚C and should be protected from prolonged exposure to light. Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Mouse IgG2a, kappa
CONJUGATE:	APC

Additional Info

ALTERNATE NAMES:	loc, B220, Cd45, L-CA, Ly-5, T200, CD45R, Lyt-4, Ptprc
OFFICIAL SYMBOL:	Ptprc
GENE ID:	19264

Background

BACKGROUND:	The 104 monoclonal antibody specifically reacts with the mouse CD45 molecule, the Leukocyte Common Antigen (LCA) which occurs in the alloantigen CD45.2-expressing mouse strains (C57BL/6, CBA, 129, A, AKR, C58, DBA/1, DBA/2, BALB/c, and C3H/He). The 104 monoclonal antibody does not react with the leukocytes of the CD45.1-expressing mouse strains (DA, SJL/J, RIII, and STS/A). The CD45 molecule is a member of the Protein Tyrosine Phosphatase (PTP) family, because its intracellular region contains two PTP domains. The extracellular region's variability is caused by different levels of glycosylation, and the splicing of the 4, 5, and 6 exons. The isoforms found in the mouse strains depend on the activation state, maturation stage and cell type, and are very important in B and T lymphocytes antigen receptor signal transduction. The 104 antibody inhibits some of the B lymphocytes responses, reduces the serum IgG levels, and influences the autoimmune renal pathology.
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4) Suzuki, K., Oida, T., Hamada, H., Hitotsumatsu, O., Watanabe, M., Hibi, T., ... Ishikawa, H. (2000). Gut cryptopatches: direct evidence of extrathymic anatomical sites for intestinal T lymphopoiesis.Immunity,13(5), 691-702.

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