CD45.1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD45.1, Monoclonal Antibody
Full Product Name	Anti-Mouse CD45.1 PerCP-Cy5.5
Product Gene Name	anti-CD45.1 antibody
Clonality	Monoclonal
Isotype	Mouse IgG2a, kappa
Clone Number	A20
Host	Mouse
Species Reactivity	Mouse
Form/Format	Phosphate-buffered aqueous solution, <=0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
Purity/Purification	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
Preparation and Storage	The product should be stored undiluted at 4 degree C and should be protected from prolonged exposure to light.
Conjugation	PerCP-Cyanine5.5
Applications Tested/Suitable for anti-CD45.1 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD45.1 antibody	The A20 monoclonal antibody reacts with the leukocytes of the CD45.1-expressing mouse strains (DA, SJL/J, RIII, and STS/A). It does not cross-react with cells that express CD45.2. 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 A20 antibody inhibits some of the B lymphocytes responses, from CD45.1-expressing mice, to lipopolysaccharides and antigens.
Product References and Citations for anti-CD45.1 antibody	Shen, F.W. (1981) Monoclonal antibodies to mouse lymphocyte differentiation alloantigens. Monoclonal Antibodies and T-Cell Hybridomas: Perspectives and Technical Advances. G.J. Hämmerling, U. Hämmerling, and J.F. Kearney, editors. Elsevier/North-Holland, Amsterdam. pp. 25-31. Yakura, H. I. D. E. T. A. K. A., Kawabata, I., Shen, F. W., & Katagiri, M. (1986). Selective inhibition of lipopolysaccharide-induced polyclonal IgG response by monoclonal Ly-5 antibody. The Journal of Immunology, 136(8), 2729-2733. Yakura, H., Shen, F. W., Bourcet, E., & Boyse, E. A. (1983). On the function of Ly-5 in the regulation of antigen-driven B cell differentiation. Comparison and contrast with Lyb-2. The Journal of experimental medicine, 157(4), 1077-1088..
Other Notes	Small volumes of anti-CD45.1 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 CD45.1 purchase	MBS696780 is an antibody targeting CD45.1. Also known as Anti-Mouse CD45.1 PerCP-Cy5.5. Reactive in Mouse. Host: Mouse.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

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Online datasheet: https://www.mybiosource.com/monoclonal-mouse-antibody/cd45-1/696780