

## Anti-Mouse CD45.1 Purified

Catalog Number :07522-20

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Clone:** A20

**Format/Conjugate:** Purified

**Concentration:** 0.5 mg/mL

**Reactivity:** Mouse

**Laser:** Not Applicable

**Peak Emission:** Not Applicable

**Peak Excitation:** Not Applicable

**Filter:** Not Applicable

**Brightness (1=dim,5=brightest):** Not Applicable

**Isotype:** Mouse IgG2a, kappa

**Formulation:** Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC, IHC, IP

### Description

The A20 antibody reacts with mouse CD45.1, also known as Ly5.1, which is a strain-specific allelic form of the CD45 Leukocyte Common Antigen (LCA). Functionally, CD45 is a protein tyrosine phosphatase whose broad cell distribution supports a critical role in many leukocyte functions, including regulation of signal transduction and cell activation associated with the T cell and B cell receptors. The A20 antibody is typically used as a leukocyte marker in Ly5.1 mouse strains: SJL/J, DA, STS/A and RIII. The antibody has been demonstrated to specific for CD45.1 and is not cross-reactive with CD45.2 bearing cells.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

### References

1. 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.
2. 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.
3. 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.