



**Category:** Monoclonal Antibodies      **Cat. #** mab-SF-C-C077      **Product Name:** mouse CD5

**Description:**

Monoclonal rat anti-mouse CD5. CD5 is a member of the scavenger receptor cysteine-rich protein superfamily and the major ligand of CD72, found on thymocytes, T lymphocytes, thymic NKT cells, and a subset of B lymphocytes, but not on NK cells or splenic NKT cells. The level of surface CD5 expression is developmentally regulated in the thymus, starting with low levels on CD4-CD8- thymocytes and increasing as they mature to CD4+CD8+ then CD4+CD8- or CD4-CD8+ thymocytes. T CD5 is also known as Lyt-1, Ly-1, T1, Tp67, or Ly-12. The interaction of CD5 with CD72, gp35-37, TCR, or BCR is involved in T and B cell activation.

**Immunogen:**

Mouse thymus and spleen.

**Application:**

IHC(frozen), Flow cytometry. .

**Species Reactivity:**

Mouse. Others not tested.

**Presentation:**

50 mM Sodium Borate, 150 mM Sodium Chloride, 20% Glycerol and 0.05% Sodium azide, pH 8.0.

**Aliquoting Instructions:**

Do not dilute the entire reconstituted solution at once. Withdraw aliquots as needed with a micropipette and keep concentrated stock at 4°C. Dilute according to the particular application being used. In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good diluent to use with most antibodies.

**Specificity:**

This antibody recognizes murine CD5 (Lyt-1) a cell surface glycoprotein expressed by T-lymphocytes, a 67 kDa protein expressed by a majority of thymocytes, mature T cells and a subset of B cells. The expression of CD5 by a small subset of B cells characterizes a developmentally and functionally distinct lineage of B cells called B-1 cells. CD5 is a counter-receptor for CD72 and plays a role in the T-B cell interaction.

**Storage:**

Store at 2~8°C for short term, freeze under -20°C for long term storage.

**Size:** 0.2 mg

**Clone:** 53-7.3

**Isotype:** IgG2a, kappa

**Host:** Rat

**Form:** Purified

**Concentration:** 0.5 mg/ml

**Units on Hand:** YES

**References:**

1. Ledbetter, J. A., et al., .J. Exp. Med. 152(2): 280-295, 1980.
2. Ledbetter, J. A., Immunol. Rev. 47: 63-90, 1974.
3. Bourdeau, A., et al.,. Blood doi:10.1182/blood-2006-08-044370, 2007.

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