

**AM08111BT-N****Monoclonal Antibody to CD5 - Biotin**

<b>Alternate names:</b>	LEU-1, LEU1, Ly-1, Lymphocyte antigen T1/Leu-1, Lyt-1, T-cell surface glycoprotein CD5
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	<p>In humans, CD5 is a 55kDa T lymphocyte single chain transmembrane glycoprotein. It is present on all mature T lymphocytes, on most thymocytes and on many T cell leukemias and lymphomas. It reacts with a subpopulation of activated B cells. CD5/Lyt1 antigen is a monomeric type I transmembrane glycoprotein expressed on thymocytes, T lymphocytes, and a subset of B lymphocytes, but not on natural killer (NK) cells. It has been identified as the major ligand of the B cell antigen CD72. The frequency of CD5+ B cells exhibits strain dependent variation, and the phenotypic, anatomical, functional, developmental, and pathological characteristics of the CD5+ B cells suggest that they may represent a distinct lineage, known as B1 cells. Binding of CD5 on the T cell surface can augment alloantigen or mitogen induced lymphocyte proliferation and induces increased cytosolic free calcium, IL2 secretion, and IL2R expression. It has been proposed that CD5 negatively regulates signal transduction mediated by the T cell and B cell receptors.</p>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	f43
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative. <b>Label:</b> Biotin
<b>Applications:</b>	<b>Flow Cytometry:</b> $< / = 1 \mu\text{g}/10\text{e}6$ cells. (Ref.1-2) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Specific to Feline CD5. (Mr. 67kDa) This antibody is useful as a pan T Cell Marker. (Ref.1) <b>Species:</b> Feline (Cat). Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Ackley, C.D., and M.D. Cooper. 1992. Am. J. Vet. Res. 53:466-471. 2. Dean, G.A., S.L. Quackenbush, C.D. Ackley, M.D. Cooper, and E.A. Hoover. 1991. Vet. Immunol. Immunopathol 28:327-335.