

Product datasheet for **AM31857RP-N**

Cd5 Rat Monoclonal Antibody [Clone ID: 53-7.3]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | 53-7.3 |
| Applications: | FC |
| Recommended Dilution: | This clone (53-7.3) has been reported to work in Immunohistochemistry on Acetone Fixed Frozen Sections and Zinc Fixed Paraffin Sections , Immunoprecipitation and Flow Cytometry . |
| Reactivity: | Human, Mouse |
| Host: | Rat |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Mouse thymus or spleen from Balb/c mouse thymus or spleen. |
| Specificity: | This CD5 (Ly-1) Monoclonal Antibody is specific for the Mouse CD5 antigen. |
| Formulation: | PBS containing 0.02% Sodium Azide as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml Label: PE State: Liquid purified Ig fraction |
| Concentration: | lot specific |
| Purification: | Protein G Chromatography |
| Conjugation: | PE |
| Storage: | Store the antibody undiluted at 2-8°C. DO NOT FREEZE! |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | CD5 antigen |
| Database Link: | Entrez Gene 921 Human Entrez Gene 12507 Mouse P13379 |



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Background:

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.

Synonyms:

CD5, LEU1