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SM410F Monoclonal Antibody to CD5 - FITC

Alternate names: LEU-1, LEU1, Ly-1, Lymphocyte antigen T1/Leu-1, Lyt-1, T-cell surface glycoprotein CD5

Quantity: 0.1 mg
Concentration: 0.1 mg/ml

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.

Host / Isotype: Rat / IgG2a Clone: YKIX322.3

Immunogen: Concanavilin A activated canine peripheral blood cells. Spleen cells from an

immunised DA rat were fused with cells of the rat Y3/Ag1.2.3 myeloma cell line.

Format: State: Liquid purified IgG

Purification: Affinity chromatography on Protein G

Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide and 1% Bovine Serum

Albumin

Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications: Flow Cytometry: Neat - 1/10; Use 10µl of the suggested working dilution to label 10e6

cells or 100µl of whole blood.

Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.

Specificity: This antibody recognises a 67kD cell surface glycoprotein expressed on the surface of

T cells. Clustered as canine CD5 in the First Canine Leucocyte Antigen Workshop.

Species: Dog.

Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for

onger.

Avoid repeated freezing and thawing.

This product is photosensitive and should be protected from light.

Shelf life: one year from despatch.



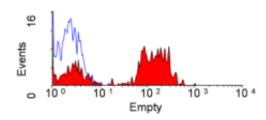
SM410F: Monoclonal Antibody to CD5 - FITC

General Readings: 1. Cobbold S, Metcalfe S. Monoclonal antibodies that define canine homologues of

human CD antigens: summary of the First International Canine Leukocyte Antigen Workshop (CLAW). Tissue Antigens. 1994 Mar;43(3):137-54. PubMed PMID: 8091414.

Pictures: SM410F staining of canine peripheral

blood lymphocytes.



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