

Product datasheet for **SM1062R**

CD5 Mouse Monoclonal Antibody [Clone ID: MF7-14.5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MF7-14.5
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of Neat antibody to label 10e6 cells or 100 µl whole blood.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	This antibody recognises the CD5 cell surface glycoprotein, a 67kD antigen expressed by T lymphocytes and by a subset of B lymphocytes.
Formulation:	PBS, pH 7.2 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: PE State: Lyophilized purified IgG fraction. Label: R. Phycoerythrin (RPE)
Reconstitution Method:	Restore with distilled water.
Purification:	Affinity chromatography on Protein G
Conjugation:	PE
Storage:	Prior to and following reconstitution store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD5 molecule
Database Link:	Entrez Gene 921 Human P06127



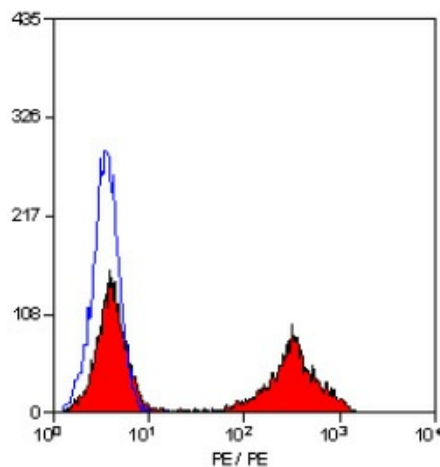
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Background:

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

Product images:

Staining of human peripheral blood lymphocytes with Mouse Anti Human CD5-RPE