

## Product datasheet for **SM498R**

### CD5 Mouse Monoclonal Antibody [Clone ID: CVS5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	CVS5
Applications:	FC
Recommended Dilution:	<b>Flow cytometry:</b> Neat, use 10µl to label 10e6 cells in 100µl.
Reactivity:	Equine
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Equine leucocytes.
Specificity:	CVS5 recognises the equine CD5 antigen with an approximate molecular weight of 69kDa. Equine CD5 is expressed on the majority of T lymphocytes, in addition it has been reported that equine CD5 may also be detected at very low levels on B cells and granulocytes.
Formulation:	Containing 0.09% Sodium azide, 1% BSA and 5% Sucrose Label: PE State: Purified State: Lyophilised purified IgG Label: R. Phycoerythrin
Reconstitution Method:	Restore with 1 ml distilled water.
Purification:	Affinity chromatography on Protein G
Conjugation:	PE
Storage:	Prior to and following reconstitution store the antibody at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Database Link:	<a href="#">F6PYA8</a>



[View online »](#)

**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