

## Product datasheet for **AM05559FC-N**

### CD5 Mouse Monoclonal Antibody [Clone ID: 1H6/8]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	1H6/8
Applications:	FC, IP, WB
Recommended Dilution:	Western Blot. Immunoprecipitation. Flow Cytometry: 1/10.
Reactivity:	Porcine
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	ConA/PMA activated porcine peripheral blood cells.
Specificity:	This antibody is specific for the CD5 cell surface antigen, which is expressed by porcine T lymphocytes. In pigs, CD5 can be used to distinguish between NK cells (CD4- CD8+ CD5-) and MHC-restricted cytotoxic T cells (CD4- CD8+ CD5+). The epitope recognised by this clone was designated CD5a at the Second International Swine Workshop.
Formulation:	Phosphate buffered saline pH7.4 containing 0.09% Sodium Azide, 1% Bovine Serum Albumin Label: FITC State: Liquid purified IgG Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Database Link:	<a href="#">Q9GMA0</a>



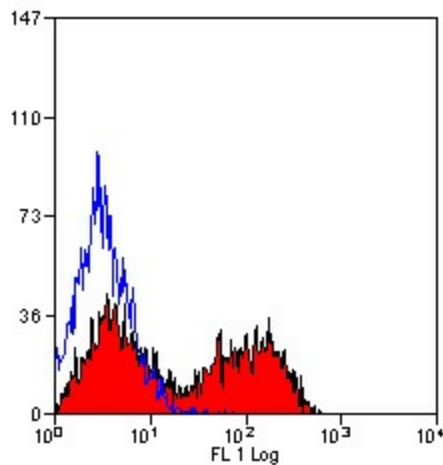
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**Background:**

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 porcine peripheral blood lymphocytes with mouse anti porcine CD5:FITC