

Acris Antibodies, Inc.

6815 Flanders Drive, Suite 140 San Diego, CA 92121 UNITED STATES

Phone: +1-858-888-7900 Fax: +1-858-888-7904 US-info@acris-antibodies.com

AM05559FC-N Acris Antibodies GmbH

Schillerstr. 5 32052 Herford GERMANY

Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info@acris-antibodies.com

Monoclonal Antibody to CD5 - FITC

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

Catalog No.: AM05559FC-N

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.

Uniprot ID: Q9GMA0

NCBI: <u>9823</u>

Host / Isotype: Mouse / IgG2a

Clone: 1H6/8

Immunogen: ConA/PMA activated porcine peripheral blood cells.

Format: State: Liquid purified IgG

Purification: Affinity chromatography on Protein G

Buffer System: Phosphate buffered saline pH7.4 containing 0.09% Sodium Azide, 1%

Bovine Serum Albumin

Label: FITC - Fluorescein Isothiocyanate Isomer 1

Applications: Western Blot.

OG/20130513

Immunoprecipitation. Flow Cytometry: 1/10.

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

be determined by the user.



AM05559FC-N: Monoclonal Antibody to CD5 - FITC

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.

Species: Porcine.

Other species not tested.

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.

Shelf life: one year from despatch.

Caution:

(A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by

trained staff only.

General Readings:

1. Pescovitz MD, Book BK, Aasted B, Dominguez J, Bullido R, Trebichavsky I, et al. Analyses of monoclonal antibodies reacting with porcine CD5: results from the Second International Swine CD Workshop. Vet Immunol Immunopathol. 1998 Jan 30;60(3-4):269-73. PubMed PMID: 9589565.

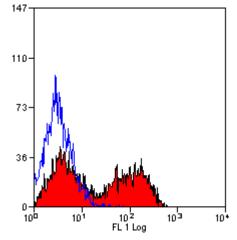
2. Saalmüller A, Pauly T, Lunney JK, Boyd P, Aasted B, Sachs DH, et al. Overview of the Second International Workshop to define swine cluster of differentiation (CD) antigens. Vet Immunol Immunopathol. 1998 Jan 30;60(3-4):207-28. PubMed PMID: 9589560.

3. Doménech N, Alvarez B, Bullido R, Alonso F, Ezquerra A, Domínguez J. A new epitope on swine CD5 molecule detected by monoclonal antibody 5F12/9. Hybrid Hybridomics. 2003 Jun;22(3):179-82. PubMed PMID: 12954104.

4. Sánchez-Torres C, Gómez-Puertas P, Gómez-del-Moral M, Alonso F, Escribano JM, Ezquerra A, et al. Expression of porcine CD163 on monocytes/macrophages correlates with permissiveness to African swine fever infection. Arch Virol. 2003 Dec;148(12):2307-23. Epub 2003 Sep 16. PubMed PMID: 14648288.

Pictures:

Staining of porcine peripheral blood lymphocytes with mouse anti porcine CD5:FITC



Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com