

## Monoclonal Antibody to WC1 - FITC

<b>Alternate names:</b>	WC1 antigen
<b>Catalog No.:</b>	AM05699FC-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0,1 mg/ml
<b>Background:</b>	The WC1 antigen is reported to be involved in a number of processes, including activation of gamma/delta T cells and the development of a Th1-biased acquired immune response.
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	CC15
<b>Immunogen:</b>	Bovine lymphocytes
<b>Format:</b>	<b>State:</b> Liquid purified IgG containing 0.09% Sodium Azide and 1% Bovine Serum Albumin <b>Purification:</b> Affinity chromatography on Protein G <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	Flow Cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises WC1, a 215/300kD antigen expressed on the majority of gamma/delta T lymphocytes. These cells also express low levels of CD5, but are negative for other B and T cell markers. This product is routinely tested in flow cytometry on bovine peripheral blood lymphocytes. <b>Species:</b> Bovine, Sheep, Goat. Other species not tested.
<b>Storage:</b>	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.
<b>Caution:</b>	(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.
<b>General Readings:</b>	1. Howard CJ, Sopp P, Parsons KR, Finch J. In vivo depletion of BoT4 (CD4) and of non-T4/T8 lymphocyte subsets in cattle with monoclonal antibodies. Eur J Immunol. 1989 Apr;19(4):757-64. PubMed PMID: 2567247. 2. Clevers H, MacHugh ND, Bensaïd A, Dunlap S, Baldwin CL, Kaushal A, et al. Identification of a bovine surface antigen uniquely expressed on CD4-CD8- T cell receptor gamma/delta+ T lymphocytes. Eur J Immunol. 1990 Apr;20(4):809-17. PubMed PMID: 1971793. 3. Gutierrez M, Forster FI, McConnell SA, Cassidy JP, Pollock JM, Bryson DG. The detection of CD2+, CD4+, CD8+, and WC1+ T lymphocytes, B cells and macrophages in fixed and paraffin

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embedded bovine tissue using a range of antigen recovery and signal amplification techniques. *Vet Immunol Immunopathol.* 1999 Nov 30;71(3-4):321-34. PubMed PMID: 10587310.

4. Brodersen R, Bijlsma F, Gori K, Jensen KT, Chen W, Dominguez J, et al. Analysis of the immunological cross reactivities of 213 well characterized monoclonal antibodies with specificities against various leucocyte surface antigens of human and 11 animal species. *Vet Immunol Immunopathol.* 1998 Jun 30;64(1):1-13. PubMed PMID: 9656427.

5. Winkler MT, Doster A, Jones C. Persistence and reactivation of bovine herpesvirus 1 in the tonsils of latently infected calves. *J Virol.* 2000 Jun;74(11):5337-46. PubMed PMID: 10799611.

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