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SM435F Monoclonal Antibody to CD4 - FITC

Alternate names: T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4

Quantity: 0.1 mg

Concentration: 0.1 mg/ml

Background: CD4 is a single chain transmembraneous glycoprotein (59 kDa) which belongs to the immunoglobulin superfamily. CD4 is present on a subset of T lymphocytes ("helper/inducer" T cells) and is also expressed at a lower level on monocytes, tissue macrophages and granulocytes. The antigen is involved in binding to MHC class II molecules. The intracellular domain of the antigen is associated with p56lck protein tyrosine kinase.

Uniprot ID: A7YY52

NCBI: NP_001096695.1

GeneID: 407098

Host / Isotype: Mouse / IgG2a

Clone: CC8

Immunogen: Spleen cells from an immunised mouse were fused with cells of the mouse NS1 myeloma cell line.

Format:
State: Liquid purified IgG
Purification: Affinity chromatography on Protein G
Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin
Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications:
Flow Cytometry.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
CC8 precipitates a molecule of approximately 50kD and is considered to be the bovine homologue of Human CD4. The phenotype, tissue distribution and function of T-cells expressing the bovine CD4 antigen are similar to those in other species. However, expression on macrophages has not yet been detected.
Species: Bovine.
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.

General Readings:
1. Bensaid, A. et al. (1991) Individual antigens of cattle. Bovine CD4 (BoCD4). Vet. Immunol. Immunopathol. 27:51 - 54.
2. Eskra L, O'Reilly KL, Splitter GA. Effect of monoclonal antibodies on in vitro function of T-cell subsets. Vet Immunol Immunopathol. 1991 Jan;27(1-3):215-22. PubMed PMID:

1826982.

Pictures:

Staining of bovine peripheral blood lymphocytes with MOUSE ANTI BOVINE CD4:FITC (SM435F).