

Description

CD4 is a 55 kDa membrane glycoprotein of the immunoglobulin family found on T helper cells. It binds the constant region of MHC class II molecules on antigen presenting cells during T cell activation.

Technical Information

Antibody:	Mouse monoclonal, IgG ₁
Specificity:	Bovine CD4 ¹
Cross-reactivity:	Not tested
Immunogen:	Bovine lymphocytes

Formulation and Storage

Purity:	IgG purified by protein G affinity chromatography from serum-free cell culture supernatant.
Product Formulation:	Lyophilized from $a \ge 1 \text{ mg/ml}$ solution in 20 mM NaH ₂ PO ₄ 0.15 M NaCl, 1.0% (w/v) mannitol, pH 7.4. Concentration determined by absorbance at 280 nm using an extinction coefficient of 1.4 ($\varepsilon_{0.1\%}$).
Reconstitution:	Reconstitute with deionized water.
Storage:	Aliquot and store at -20°C for prolonged periods. Avoid freeze- thaw cycles. Alternatively add 0.02% (w/v) sodium azide and store at 4°C.
Country of Origin:	Hybridoma country of origin- Kenya. Subcloned and produced- USA.
Available Formats:	0.1 mg and 0.5 mg

References

¹ Baldwin, C.L., Teale, A.J., Naessens, J.G., Goddeeris, B.M., MacHugh, N.D., and Morrison, W. I. 1986. *J. Immunol.* 136 (12):4385-4391.

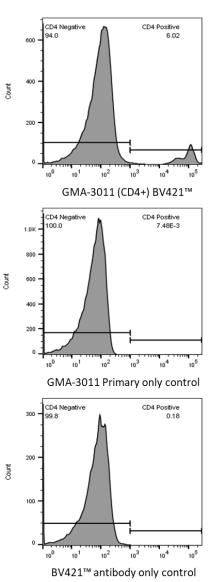
Mouse Anti-Bovine CD4 GMA-3011 (IL-A11)

Applications

For research use only.

Flow Cytometry: Recommended concentration is 1.0 to 10 μ g/mL per 1x10⁶ PBMCs in 100 μ l. Investigator should titrate for specific application.

Flow Cytometry Data



Peripheral blood was collected from a purebred Holstein cow into sodium heparin vacutainers and peripheral blood mononuclear cells (PBMCs) were isolated using Histopaque-1083.

Cells were washed in phosphatebuffered saline and 1x10⁶ cells were stained with 4.0 µg/mL GMA- 3011 and visualized with a secondary rat antimouse IgG₁ antibody conjugated to BV421[™].

PBMCs were also stained with GMA-3011 or the BV421™ -conjugated antibody only as negative controls. Cells were scanned and data collected using a Milltenyi VYB flow cytometer.

Data was analyzed with FlowJo[®] version 10.2 analysis software.