

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

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, IgG₁

Specificity:

Bovine CD4¹

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 \geq 1 mg/ml solution in 20 mM NaH₂PO₄ 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 (ε _{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.

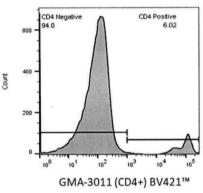
Applications

For research use only.

Flow Cytometry:

Recommended concentration is $1.0 \text{ to } 10 \text{ µg/mL per } 1 \text{x} 10^6 \text{ PBMCs}$ in 100 µl. 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.

CD4 Negative 7.48E-3

600

600

600

600

600

600

600

7.48E-3

600

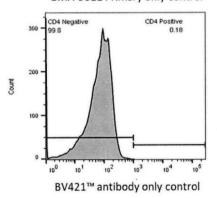
600

600

600

7.48E-3

Cells were washed in phosphate-buffered 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.