

Mouse Anti-Bovine MHC Class II GMA-3021 (IL-A21)

Description

MHC Class II is a molecule found on antigen- presenting cells which recognizes peptides derived from pathogens internalized by the cells or in cellular vesicles. The molecules present the peptides to CD4+ T lymphocytes to initiate an adaptive immune response.

Technical Information

Antibody:	Mouse monoclonal, IgG _{2a} Bovine MHC Class II ¹ ,
Specificity:	monomorphic
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

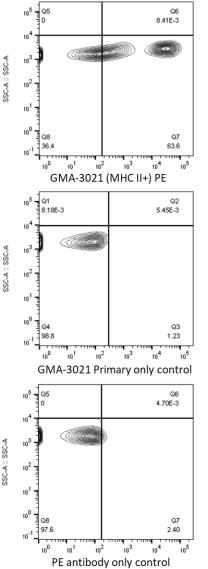
¹ Emery, D.L., MacHugh, N.D., Ellis, J.A. 1987. *Immunology*. 62:177-183.

Applications

For research use only.

Flow Cytometry:Recommended concentration is1.0 to 10 μg/mL per 1x106 PBMCsin 100 μl. Investigator shouldtitrate 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 phosphate-buffered saline and 1×10^6 cells were stained with 6.25 µg/mL GMA- 3021 and visualized with a secondary goat antimouse IgG_{2a} antibody conjugated to phycoerythrin (PE).

PBMCs were also stained with GMA-3021 or the PEconjugated 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.

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