Mouse Anti-Bovine CD25

GMA-3111 (IL-A111)

Description

CD25 (IL-2Rα) is a 55 kDa transmembrane receptor subunit expressed on activated T and B cells and NK cells. CD25 binds to IL-2, inducing proliferation of the activated cells. It can also mediate apoptosis.

Technical Information

Antibody:	Mouse monoclonal, IgG_1
Specificity:	CD25[1]
Cross-reactivity:	Not tested
Immunogen:	Bovine T lymphocytes

Formulation and Storage

Purity:	IgG purified by protein G affinity chromatography from serum-free cell culture supernatant.
Product Formulation:	Lyophilized from a ≥ 1 mg/ml solution in 20 mM NaH_2PO_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

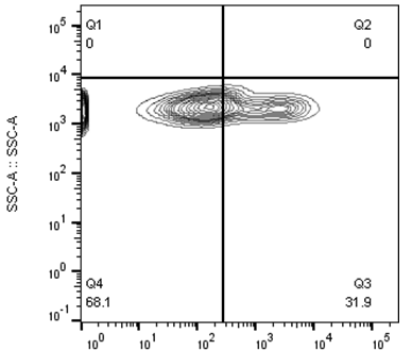
[1] Naessens, J., Sileghem, M., MacHugh, N., Park Y.H., Davis, W.C., Toye, P. 1992. *Immunology.* 76:305-309.

Applications

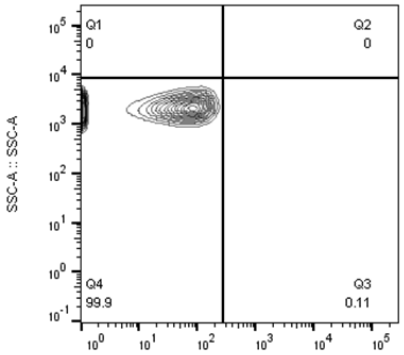
For research use only.

Flow Cytometry:	Recommended concentration is 1.0 to 10 µg/mL per $1x10^6$ PBMCs in 100 µl. Investigator should titrate for specific application.

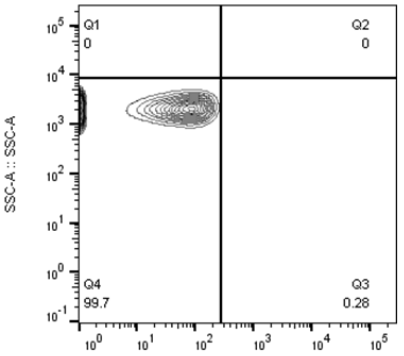
Flow Cytometry Data



GMA-3111 (CD25+) BV421™



GMA-3111 Primary only control



BV421™ antibody only control

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 $1x10^6$ cells were stained with 6.25 µg/mL GMA-3111 and visualized with a secondary rat anti-mouse IgG_1 antibody conjugated to BV421™.

PBMCs were also stained with GMA-3111 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.

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