Mouse Anti-Bovine CD172

GMA-3024 (IL-A24)

Description

CD172a (SIRPa) is a transmembrane protein involved in cell signal regulation and is the receptor for CD47. CD172a is found on bovine granulocytes, monocytes and mononuclear phagocytes.

Technical information

Antibody:	Mouse monoclonal, IgG_1
Specificity:	CD172a (myeloid cells)[1]
Cross-reactivity:	Not tested
Immunogen:	Bovine pulmonary macrophages

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

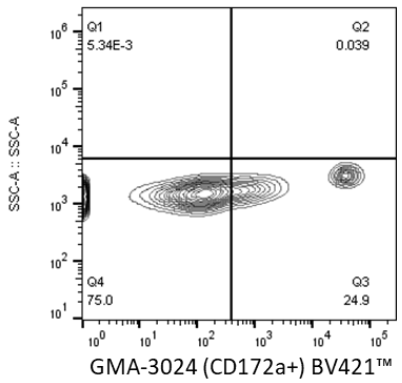
[1] Ellis, J.A., Morison, W.I., Goddeeris, B.M., Emery, D. L. 1987. *Vet. Immunol. Immunopath.* 17:125-134.

Applications

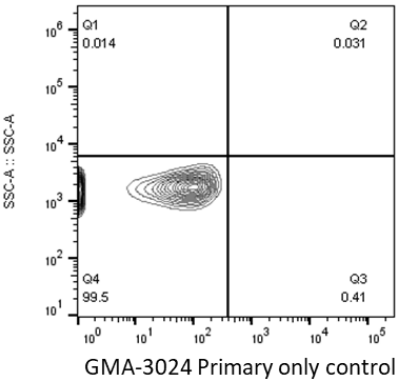
For research use only.

Flow cytometry:	Recommended concentration is 3.0 to 15 µg/mL per $1x10^6$ PBMCs in 100 µl. Investigator should titrate for specific application.

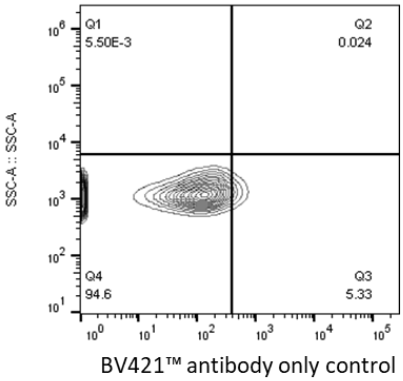
Flow Cytometry Data



GMA-3024 (CD172a+) BV421™



GMA-3024 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 12.5 µg/mL GMA-3024 and visualized with a secondary rat anti-mouse IgG_1 antibody conjugated to BV421™.

PBMCs were also stained with GMA-3024 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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