Mouse Anti-Bovine CD8

GMA-3105 (IL-A105)

Description

CD8α is a 34 kDa transmembrane glycoprotein of the immunoglobulin family found on T cytotoxic cells. It forms a dimer with CD8β forming the complete CD8 molecule. CD8 binds the constant region of MHC class II molecules on antigen-presenting cells during T cell activation.

Technical information

Antibody:	Mouse monoclonal, IgG_{2a}
Specificity:	Bovine CD8α and CD8αβ[1]
Cross-reactivity:	Not tested
Immunogen:	NA

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

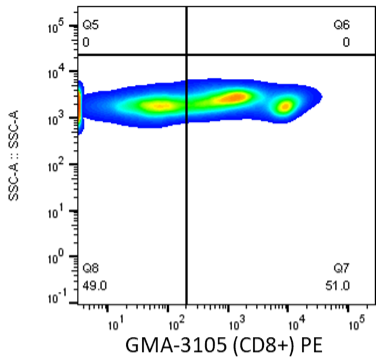
[1] MacHugh, N.D., Taracha, E. L., Toye, P.G. 1993. *Vet. Immunol. Immunopath.* 39:61-67.

Applications

For research use only.

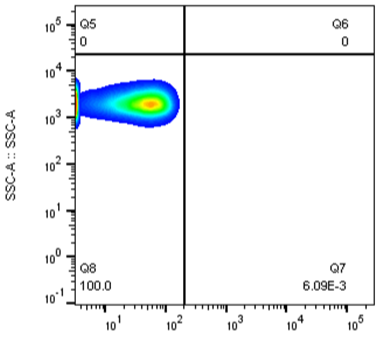
Flow Cytometry:	Recommended concentration is 2.0 to 20 µg/mL per $1x10^6$ PBMCs in 100 µl. Investigator should titrate for specific application.

Flow Cytometry Data



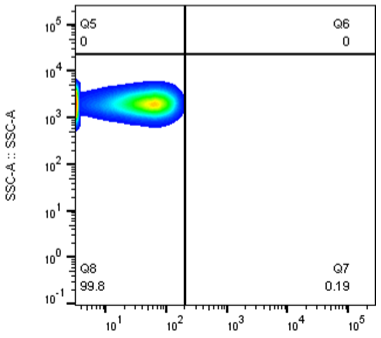
GMA-3105 (CD8+) PE

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



GMA-3105 Primary only control

Cells were washed in phosphate-buffered saline and $1x10^6$ cells were stained with 12.5 µg/mL GMA-3105 and visualized with a secondary rat anti-mouse IgG_{2a} antibody conjugated to phycoerythrin (PE).



PE antibody only control

PBMCs were also stained with GMA-3105 or the PE-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.

Green Mountain Antibodies, PO Box 1283, Burlington, VT 05402
T: 802.865.6230 www.GreenMoAb.com F: 802.865.0115