Human DC-LAMP Lumenal Domain Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF4087

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DC-LAMP Lumenal Domain in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human LAMP is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human DC-LAMP Lumenal Domain Asp21-Thr381 Accession # EAW78337
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.

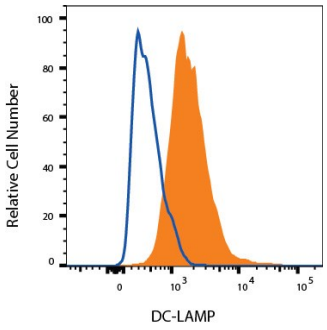
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human DC-LAMP Lumenal Domain
Flow Cytometry	0.25 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Flow Cytometry



Detection of DC-LAMP in Human Mature Dendritic Cells by Flow Cytometry. Human mature dentritic cells differentated from human peripheral blood mononuclear cell derived $CD14^+$cells treated with 20 ng/mL Recombinant Human IL-4 (Catalog # 204-IL) and 50 ng/mL Recombinant Human GM-CSF (Catalog # 215-GM) for 7 days and 1 µg/mL LPS, 20 ng/mL Recombinant Human TNF-a (Catalog # 210-TA), and 20 ng/mL Recombinant Human IL-1ß/IL-1F2 (Catalog # 201-LB) for last 24 hours were stained with Goat Anti-Human DC-LAMP Lumenal Domain Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4087, filled histogram) or isotype control (Catalog # AB-108-C, open histogram), followed by Donkey Anti-Goat IgG (H+L) Allophycocyanin (Catalog # F0108).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

DC-LAMP (dendritic cell lysosome-associated membrane protein: also known as CD208 and LAMP3) is a 50-70 kDa member of the LAMP family of proteins. Mature human DC-LAMP is a 389 amino acid (aa) type I transmembrane protein. It has a 254 aa lumenal N-terminus and a short 14 aa cytoplasmic tail. The molecule is found in type II pneumocytes, interdigitating DC, and various tumors. DC-LAMP serves as a marker of human mature DC, and it may play a role in normal lysosome and endosome function. Over the region used as immunogen, human DC-LAMP shares 72% and 55% aa sequence identity with canine and mouse DC-LAMP, respectively.

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