

Spark PLUS UV395™ anti-mouse CD107a (LAMP-1) Antibody

Catalog# / Size	121647 / 25 µg
Clone	1D4B
Regulatory Status	RUO
Other Names	Lysosome-associated membrane glycoprotein 1, lysosomal membrane glycoprotein 1, CD107 antigen-like family member A, lysosome-associated membrane protein 1
Isotype	Rat IgG2a, κ
Description	CD107a, also known as Lysosome-Associated Membrane Protein 1 (LAMP-1) or LGP-120, is a 110-140 kD type I membrane glycoprotein. Mature CD107a is heavily glycosylated from a 40 kD core protein. This molecule is located on the luminal side of lysosomes. Upon activation, CD107a is transferred to the cell membrane surface of activated platelets, activated lymphocytes, macrophages, epithelial cells, endothelial cells, and some tumor cells. CD107a has been suggested to play a role in the protection of lysosomal membrane from lysosomal hydrolases which is involved in cell adhesion and regulation of tumor metastasis, and mediates autoimmune disease progression. CD107a is a ligand for galactin and E-selectin. Surface expression of LAMP-1 has been shown to correlate with CD8+ T cell and NK cell cytotoxicity.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	This monoclonal antibody was raised against NIH/3T3 mouse embryonic fibroblast tissue culture cell membranes. It has been mapped to the N-terminus of LAMP-1.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS UV395™ under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.
Excitation Laser	Ultraviolet Laser (355 nm)
RRID	AB_3720510 (BioLegend Cat. No. 121647)

Antigen Details

Structure	LAMP-1 is a 406 amino acid protein with a molecular mass of 44 kD.
------------------	--

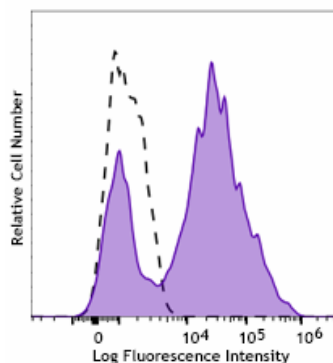
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Brilliant Violet 785™ anti-mouse CD107a (LAMP-1), Alexa Fluor® 594 anti-mouse CD107a (LAMP-1), Brilliant Violet 605™ anti-mouse CD107a (LAMP-1), PerCP/Cyanine5.5 anti-mouse CD107a (LAMP-1), PE/Dazzle™ 594 anti-mouse CD107a (LAMP-1), APC/Cyanine7 anti-mouse CD107a (LAMP-1), Brilliant Violet 421™ anti-mouse CD107a (LAMP-1), Spark Blue™ 574 anti-mouse CD107a (LAMP-1) (Flexi-Fluor™), Spark PLUS UV395™ anti-mouse CD107a (LAMP-1) Antibody, Spark Red™ 718 anti-mouse CD107a (LAMP-1) (Flexi-Fluor™), Spark YG™ 581 anti-mouse CD107a (LAMP-1) (Flexi-Fluor™), Spark PLUS V475™ anti-mouse CD107a (LAMP-1) (Flexi-Fluor™), FITC anti-mouse CD107a (LAMP-1), Alexa Fluor® 647 anti-mouse CD107a (LAMP-1), PE anti-mouse CD107a (LAMP-1), Brilliant Violet 510™ anti-mouse CD107a (LAMP-1), APC/Fire™ 750 anti-mouse CD107a (LAMP-1), TotalSeq™-A0905 anti-mouse CD107a (LAMP-1), TotalSeq™-C0905 anti-mouse CD107a (LAMP-1), TotalSeq™-B0905 anti-mouse CD107a (LAMP-1), PE/Cyanine7 anti-mouse CD107a (LAMP-1), Spark YG™ 593 anti-mouse CD107a (LAMP-1) (Flexi-Fluor™), Spark NIR™ 685 anti-mouse CD107a (LAMP-1) (Flexi-Fluor™), Alexa Fluor® 488 anti-mouse CD107a (LAMP-1), Alexa Fluor® 700 anti-mouse CD107a (LAMP-1), APC anti-mouse CD107a (LAMP-1), Brilliant Violet 650™ anti-mouse CD107a (LAMP-1), Spark Blue™ 550 anti-mouse CD107a (LAMP-1) (Flexi-Fluor™), Purified anti-mouse CD107a (LAMP-1), Biotin anti-mouse CD107a (LAMP-1), Brilliant Violet 711™ anti-mouse CD107a (LAMP-1)

Product Data



Thioglycollate-elicited BALB/c mouse peritoneal macrophages were stained with anti-mouse CD107a (LAMP-1) (clone 1D4B) Spark PLUS UV395™ (filled histogram) or rat IgG2a, κ Spark PLUS UV395™ isotype control (open histogram).

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at www.biolegend.com/terms ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587