

CD107a (LAMP-1) Monoclonal Antibody (eBio1D4B (1D4B)), Biotin, eBioscience™

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio1D4B (1D4B)
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_657546

Applications	Tested Dilution	Publications
Western Blot (WB)	-	4 Publications
Immunocytochemistry (ICC/IF)	-	10 Publications
Flow Cytometry (Flow)	0.25 µg/test	10 Publications

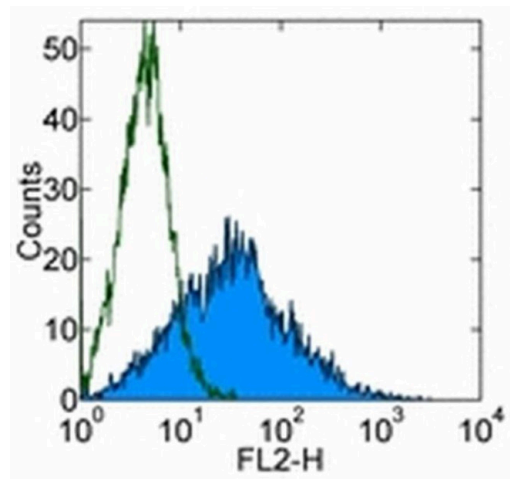
Product Specific Information

Description: The eBio1D4B monoclonal antibody reacts with mouse CD107a, also known as lysosomal-associated membrane protein-1 (LAMP-1). CD107a is a type I, lysosomal membrane protein that is extensively glycosylated. It is expressed constitutively in the late endosomes-lysosomes in all cells. CD107a is also transiently expressed on the cell surface of degranulating cytolytic T cells. Additionally, CD107a has been implicated in a variety of cellular functions including cancer metastasis and is also a marker for lysosomal storage disorders.

Applications Reported: This eBio1D4B (1D4B) antibody has been reported for use in intracellular staining followed by flow cytometric analysis. It has also been reported for use in surface staining in a flow cytometric based degranulation assay.

Applications Tested: This eBio1D4B (1D4B) antibody has been tested by intracellular staining and flow cytometric analysis of thioglycolate-elicited peritoneal exudate cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.



CD107a (LAMP-1) Antibody (13-1071-85) in Flow

Staining of thioglycolate-induced peritoneal-exudate cells with 0.125 µg of Rat IgG2a K Isotype Control Biotin (Product # 13-4321-82) (open histogram) or 0.125 µg of Anti-Mouse CD107a (LAMP-1) Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Total cells were used for analysis.

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Western Blot (4)

<p>Nature communications</p> <p>A bacterial autotransporter impairs innate immune responses by targeting the transcription factor TFE3.</p> <p>"Published figure using CD107a (LAMP-1) monoclonal antibody (Product # 13-1071-82) in Western Blot"</p> <p>Authors: Ta A,Ricci-Azevedo R,Vasudevan SO,Wright SS,Kumari P,Havira MS,Surendran Nair M,Rathinam VA, Vanaja SK</p>	<p>Year</p> <p>2023</p>
<p>Frontiers in pharmacology</p> <p>An 8-Hydroxy-Quinoline Derivative Protects Against Lipopolysaccharide-Induced Lethality in Endotoxemia by Inhibiting HMGB1-Mediated Caspase-11 Signaling.</p> <p>"Published figure using CD107a (LAMP-1) monoclonal antibody (Product # 13-1071-82) in Western Blot"</p> <p>Authors: Wang X,Shi J,Li Z,Li L,Zhang R,Bai Y,Li J,Liang F,Tang Y</p>	<p>Year</p> <p>2021</p>

View more WB references on thermofisher.com

Immunocytochemistry (10)

<p>Cell reports</p> <p>Endocytic membrane repair by ESCRT-III controls antigen export to the cytosol during antigen cross-presentation.</p> <p>"13-1071-82 was used in Immunohistochemistry-immunofluorescence to demonstrate that membrane repair proves crucial in containing antigen export to the cytosol and cross-presentation in cDCs."</p> <p>Authors: Gros M,Segura E,Rookhuizen DC,Baudon B,Heurtebise-Chrétien S,Burgdorf N,Maurin M,Kapp EA,Simpson RJ,Kozik P,Villadangos JA,Bertrand MJM,Burbage M,Amigorena S</p>	<p>Year</p> <p>2022</p> <p>Species</p> <p>Mouse</p>
<p>The Journal of biological chemistry</p> <p>Synaptojanin1 deficiency upregulates basal autophagosome formation in astrocytes.</p> <p>"Published figure using CD107a (LAMP-1) monoclonal antibody (Product # 13-1071-82) in Immunocytochemistry"</p> <p>Authors: Pan PY,Zhu J,Rizvi A,Zhu X,Tanaka H,Dreyfus CF</p>	<p>Year</p> <p>2021</p>

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Flow (10)

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