

Datasheet for ABIN638445

anti-LAMP1 antibody

3 Images

9 Publications

[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	LAMP1
Reactivity:	Human, Mouse, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LAMP1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Human PBMC
Clone:	H4A3
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody H4A3 recognizes an extracellular/luminal epitope of CD107a, an approximately 100-120 kDa glycoprotein expressed mainly on lysosomal, but also on the plasma membrane.
Cross-Reactivity (Details):	Human, Non-Human Primates, Mouse
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	LAMP1
Alternative Name:	CD107a (LAMP1 Products)
Background:	Lysosomal associated membrane protein 1,CD107a (lysosome-associated membrane protein-1, LAMP-1), together with LAMP-2, is a major constituent of lysosomal membrane, 1-2 % of total CD107a is found also on the plasma membrane. The LAMP proteins are involved in lysosome biogenesis and are required for fusion of lysosomes with phagosomes. Increased CD107a immunoreactivity is observed in neurones, and in glial cells surrounding senile plaques in Alzheimers disease cases and is localized mainly in medullary epithelial cells, single macrophages and lymphocytes in acute thymic involution. CD107a is a good marker of mast cell activation.,LAMP-1, LAMPA
Gene ID:	3916
UniProt:	P11279
Pathways:	Autophagy

Application Details

Application Notes:	Western blotting: Recommended dilution: 1 µg/mL. Immunohistochemistry: Recommended dilution: 2-8 µg/mL. Flow cytometry: Intracellular and extracellular staining, recommended dilution: 1-12 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:	Majer, Vlaskova, Krol, Kalina, Kubanek, Stolnaya, Dvorakova, Elleder, Sikora: "Danon disease: a focus on processing of the novel LAMP2 mutation and comments on the beneficial use of
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peripheral white blood cells in the diagnosis of LAMP2 deficiency." in: **Gene**, Vol. 498, Issue 2, pp. 183-95, (2012) ([PubMed](#)).

Mao, Tu, Liu, Qin, Zheng, Chan, Lam, Peiris, Lau: "Inhibition of human natural killer cell activity by influenza virions and hemagglutinin." in: **Journal of virology**, Vol. 84, Issue 9, pp. 4148-57, (2010) ([PubMed](#)).

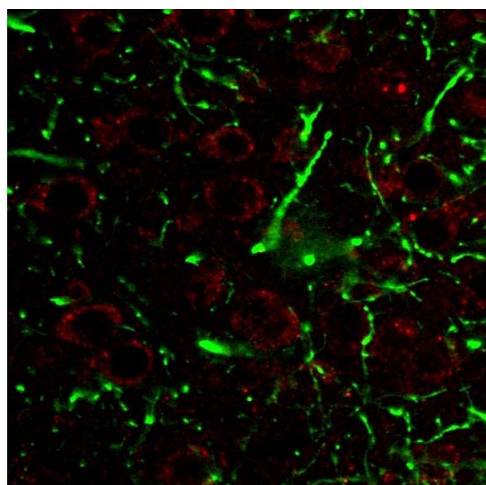
Yu, Gallegos, Marches, Zurawski, Ramilo, García-Sastre, Banchereau, Palucka: "Broad influenza-specific CD8+ T-cell responses in humanized mice vaccinated with influenza virus vaccines." in: **Blood**, Vol. 112, Issue 9, pp. 3671-8, (2008) ([PubMed](#)).

Carlsten, Björkström, Norell, Bryceson, van Hall, Baumann, Hanson, Schedvins, Kiessling, Ljunggren, Malmberg: "DNAX accessory molecule-1 mediated recognition of freshly isolated ovarian carcinoma by resting natural killer cells." in: **Cancer research**, Vol. 67, Issue 3, pp. 1317-25, (2007) ([PubMed](#)).

Tomescu, Chehimi, Maino, Montaner: "NK cell lysis of HIV-1-infected autologous CD4 primary T cells: requirement for IFN-mediated NK activation by plasmacytoid dendritic cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 179, Issue 4, pp. 2097-104, (2007) ([PubMed](#)).

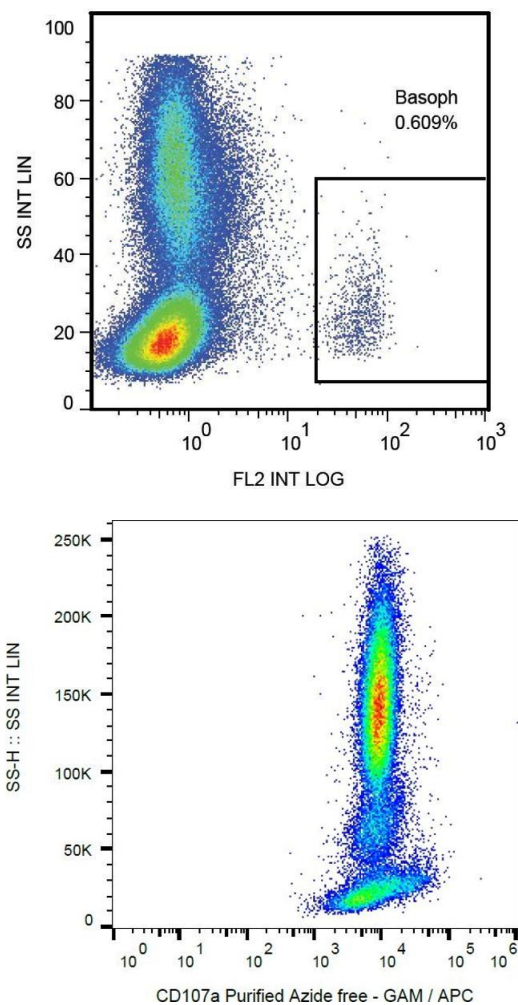
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Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry staining of CD107a (red) in tissue sections of murine brain expressing GFP in some of its neurons (green). Mouse monoclonal antibody H4A3 (anti-CD107a) was detected with goat anti-mouse IgG1 conjugated with Alexa Fluor 555.



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-CD107a (H4A3) PE.

Flow Cytometry

Image 3. Flow cytometry analysis (intracellular staining) of human peripheral blood cells with anti-CD107a (H4A3) azide free, GAM-APC.