

Mouse CD107a Antibody | anti-CD107a antibody

Anti-Hu CD107a PE-Cy7

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA129379	Mouse	Human, Non-human primates, Mouse	Flow Cytometry, Functional Assay

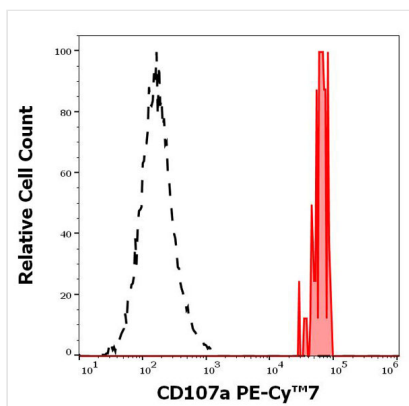
PRODUCT SYNONYMS

CD107a; Anti-Hu CD107a PE-Cy7; lysosomal associated membrane protein 1; LAMP-1; LAMPA; anti-CD107a antibody

PRODUCT SPECIFICATIONS

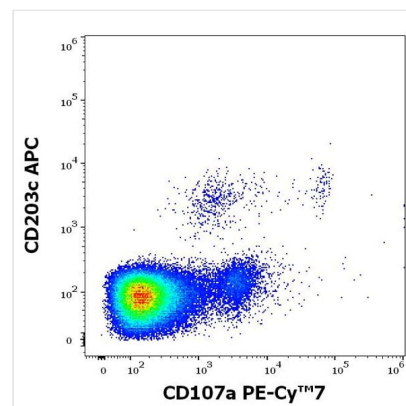
Host	Mouse
Reactivity	Human, Non-human primates, Mouse
Isotype	Mouse IgG1 kappa
Clone Number	H4A3
Specificity	The mouse monoclonal antibody H4A3 recognizes an extracellular/luminal epitope of CD107a, an approximately 100-120 kDa glycoprotein expressed mainly on lysosomal, but also on the plasma membrane.
Purity/Purification	Purified antibody is conjugated with activated tandem dye of R-phycoerythrin-cyanine 7 (PE-Cy7) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Applicable Applications for anti-CD107a antibody	FCM/FACS (Flow Cytometry)
Immunogen	Human PBMC
Conjugation	PE-Cy7
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



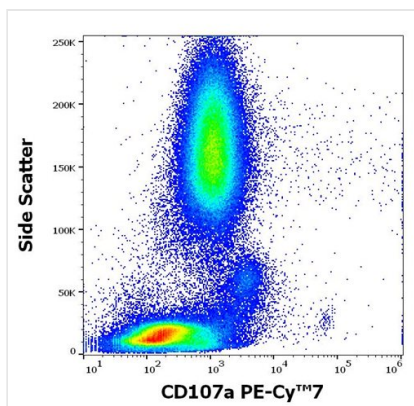
FCM/FACS (Flow Cytometry)

Separation of human CD107a positive CD203c positive basophils (red-filled) from CD107a negative CD203c negative mononuclear cells (black-dashed) in flow cytometry analysis (surface staining) of anti-IgE antibody stimulated human peripheral whole blood stained using anti-human CD107a (H4A3) PE-Cy7 antibody (10ul reagent/100ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining pattern of anti-IgE antibody stimulated human peripheral blood mononuclear cells stained using anti-human CD107a (H4A3) PE-Cy7 antibody (10ul reagent/100ul of peripheral whole blood) and anti-human CD203c (NP4D6) APC antibody (10ul reagent/100ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of anti-IgE antibody stimulated human peripheral whole blood stained using anti-human CD107a (H4A3) PE-Cy7 antibody (10ul reagent/100ul of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD107a antibody

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.

References	*Grutzkau A, Smorodchenko A, Lippert U, Kirchhof L, Artuc M, Henz BM: LAMP-1 and LAMP-2, but not LAMP-3, are reliable markers for activation-induced secretion of human mast cells. Cytometry A. 2004 Sep;61(1):62-8., URL: <a "="" 16972884?ordin,*sarafian="" 16973206?ordin,*hunyh="" 2006="" 2007="" 22365987="" 24;26(2):313-24.,="" <a="" a,="" acta="" acute="" and="" are="" biol="" cc,="" chronic="" differentially="" el,="" embo="" eskelinen="" expressed="" for="" fusion="" glycoproteins="" grinstein="" href="https://www.ncbi.nlm.nih.gov/pubmed/17245426?ordin,*Majer F, Vlaskova H, Krol L, Kalina T, Kubanek M, Stolnaya L, Dvorakova L, Elleder M, Sikora J: Danon disease: a focus on processing of the novel LAMP2 mutation and comments on the beneficial use of peripheral white blood cells in the diagnosis of LAMP2 deficiency. Gene. 2012 May 1;498(2):183-95., URL: https://pubmed.ncbi.nlm.nih.gov/22365987/,*Mao H, Tu W, Liu Y, Qin G, Zheng J, Chan PL, Lam KT, Peiris JS, Lau YL: Inhibition of human natural killer cell activity by influenza virions and hemagglutinin. J Virol. 2010 May;84(9):4148-57., URL: http://www.ncbi.nlm.nih.gov/pubmed/20164232 ,*Yu CI, Gallegos M, Marches F, Zurawski G, Ramilo O, García-Sastre A, Banchereau J, Palucka AK: Broad influenza-specific CD8+ T-cell responses in humanized mice vaccinated with influenza virus vaccines. Blood. 2008 Nov 1;112(9):3671-8., URL: https://www.ncbi.nlm.nih.gov/pubmed/18713944,*Tomescu C, Chehimi J, Maino VC, Montaner LJ: NK cell lysis of HIV-1-infected autologous CD4 primary T cells: requirement for IFN-mediated NK activation by plasmacytoid dendritic cells. J Immunol. 2007 Aug 15;179(4):2097-104., URL: https://www.ncbi.nlm.nih.gov/pubmed/17675468,*Carlsten M, Bjorkstrom NK, Norell H, Bryceson Y, van Hall T, Baumann BC, Hanson M, Schedvins K, Kiessling R, Ljunggren HG, Malmberg KJ: DNAX accessory molecule-1 mediated recognition of freshly isolated ovarian carcinoma by resting natural killer cells. Cancer Res. 2007 Feb 1;67(3):1317-25., URL: https://www.ncbi.nlm.nih.gov/pubmed/17283169,*Marcenaro S, Gallo F, Martini S, Santoro A, Griffiths GM, Aricó M, Moretta L, Pende D: Analysis of natural killer-cell function in familial hemophagocytic lymphohistiocytosis (FHL): defective CD107a surface expression heralds Munc13-4 defect and discriminates between genetic subtypes of the disease. Blood. 2006 Oct 1;108(7):2316-23., URL: https://www.ncbi.nlm.nih.gov/pubmed/16778144,*Deetz CO, Hebbeler AM, Propp NA, Cairo C, Tikhonov I, Pauza CD: Gamma interferon secretion by human Vgamma2Vdelta2 T cells after stimulation with antibody against the T-cell receptor plus the Toll-Like receptor 2 agonist Pam3Cys. Infect Immun. 2006 Aug;74(8):4505-11., URL: https://www.ncbi.nlm.nih.gov/pubmed/16861636,*Furuta K, Ikeda M, Nakayama Y, Nakamura K, Tanaka M, Hamasaki N, Himeno M, Hamilton SR, August JT: Expression of lysosome-associated membrane proteins in human colorectal neoplasms and inflammatory diseases. Am J Pathol. 2001 Aug;159(2):449-55., URL: https://www.ncbi.nlm.nih.gov/pubmed/11485903,*Mane SM, Marzella L, Bainton DF, Holt VK, Cha Y, Hildreth JE, August JT: Purification and characterization of human lysosomal membrane glycoproteins. Arch Biochem Biophys. 1989 Jan;268(1):360-78., URL: https://pubmed.ncbi.nlm.nih.gov/2912382/,
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NCBI AND UNIPROT INFORMATION

NCBI GI #	112380628
NCBI GeneID	3916
NCBI Accession #	NP_005552.3
NCBI GenBank Nucleotide #	NM_005561.3
UniProt Accession #	P11279 ; Q8WU33 ; Q96I40 ; Q9BRD2 ; Q9NP13
Molecular Weight	44,882 Da
NCBI Official Full Name	lysosome-associated membrane glycoprotein 1
NCBI Official Synonym Full Names	lysosomal-associated membrane protein 1
NCBI Official Symbol	LAMP1
NCBI Official Synonym Symbols	LAMPA; CD107a; LGP120
NCBI Protein Information	lysosome-associated membrane glycoprotein 1; LAMP-1; CD107 antigen-like family member A; lysosome-associated membrane protein 1
UniProt Protein Name	Lysosome-associated membrane glycoprotein 1

UniProt Gene Name	LAMP1
UniProt Synonym Gene Names	LAMP-1
UniProt Entry Name	LAMP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mouse-human-mouse-primate-antibody/cd107a/129379>