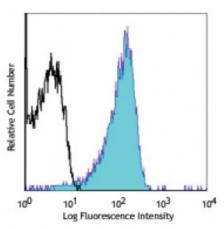
Product Data Sheet

Biotin anti-human CD107a (LAMP-1)

Catalog # / Size:	2243020 / 100 µg
Clone:	H4A3
cionei	114A5
Isotype:	Mouse IgG1, к
Immunogen:	Human adult adherent peripheral blood cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	P PR-63; BP 473; P P008
Concentration:	0.5



Thrombin-activated human peripheral blood platelets were stained with biotinylated CD107a (clone H4A3) (filled histogram) or biotinylated mouse IgG1, κ (open histogram), followed by Sav-PE.

Applications:

Applications:	Flow Cytometry, Immunohistochemistry
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 \leq 2.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported applications (for the relevant formats) include: Western blotting ⁸ , immunohistochemical staining2, immunofluorescence ^{5,7} , and immunoprecipitation5.
Application References:	 Misse D, et al. 1999. Blood 93:2454. Furuta K, et al. 2001. Am. J. Pathol. 159:449. (IHC) Watanabe A, et al. 2011. J. Biol. Chem. 286:10702. PubMed Baron Gaillard CL, et al. 2011. Mol. Cell. Biol. 22:5459. PubMed Hauck CR and Meyer TF. 1997. FEBS Lett. 405:86. (IF, IP) De Keersmaecker B, et al. 2012. J. Virol. 86:9351. PubMed Knodler LA, et al. 2010. P. Natl. Acad. Sci. USA. 107:17733. (IF) Oh J, et al. 2013 PNAS. 110:4753. PubMed
Description:	CD107a, also known as Lysosome-Associated Membrane Protein 1 (LAMP-1) or

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 galaptin and E-selectin. Surface expression of LAMP-1 has been shown to correlate with

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com CD8⁺ T cell and NK cell cytotoxicity.

Antigen

References:

- 1. Sarafian V, et al. 2006. Arch. Dermatol. Res. 298:7381.
- 2. Schlossman SF, et al. 1995. Leukocyte Typing V: White Cell Differentiation Antigens. New York:Oxford University Press. 3. Sawada R, et al.