

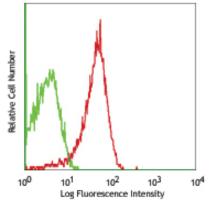
Product Data Sheet

Purified anti-human CD107a (LAMP-1)

Catalog # / Size:	328601 / 25 μg 328602 / 100 μg
Clone:	H4A3
Isotype:	Mouse IgG1, κ
Workshop Number:	P PR-63; BP 473; P P008
Immunogen:	Human adult adherent peripheral blood cells
Reactivity:	Human, Cross-Reactivity: African Green, Baboon, Chimpanzee, Pigtailed Macaque, Rhesus
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5 mg/ml
Storage:	The antibody solution should be stored undiluted at 4°C.

Applications:

purified CD107a (clone H4A3) (red histogram) or purified mouse IgG1, κ (green histogram), followed by anti-mouse IgG FITC. Applications: FC - Quality tested IF, IHC, IP, WB - Reported in the literature Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl 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, immunohistochemical staining², immunofluorescence^{5,7}, and immunoprecipitation⁵. **Application References:** 1. Misse D, et al. 1999. Blood 93:2454. 2. Furuta K, et al. 2001. Am. J. Pathol. 159:449. (IHC) 3. 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 7. Knodler LA, et al. 2010. P. Natl. Acad. Sci. USA. 107:17733. (IF) Description: CD107a, also known as Lysosome-Associated Membrane Protein 1 (LAMP-1) or LGP-120, is a 110-140 kD type I membrane gly-coprotein. The mature CD107a is heavily glycosylated from a 40 kD core protein. It is expressed by activated platelets, acti-vated lymphocytes, macrophages, epithelial cells, endothelial cells, and some tumor cells. This molecule is located on the luminal side of lysosomes and has been suggested to play a role in the protection of lysosomes membrane from lysosomal hydrolases. Upon activation, CD107a is transferred to the cell membrane surface. It plays a role in cell adhesion and regula-tion of tumor metastasis, and mediates autoimmune disease progression. CD107a is a ligand for galaptin and E-selectin. 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. 1993. J. Biol. Chem. 268:12675. 4. Chen JW, et al. 1988. J. Biol. Chem. 263:8754. 5. Chen JW, et al. 1986. Biochem. Soc. Symp. 51:97112. **Related Products: Product** Clone Application FC, ICFC, ICC, IF, IHC, IP, WB Purified Mouse IgG1, ĸ Isotype Ctrl MOPC-21 FC, ICC, ICFC FC, ICFC Cell Staining Buffer RBC Lysis Buffer (10X) Permeabilization Wash Buffer (10X) ICC. ICFC. IHC



Thrombin-activated human peripheral blood platelets were stained with



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