

Product Data Sheet

PE anti-human CD107a (LAMP-1)

Catalog # / Size: 328607 / 25 tests

328608 / 100 tests

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, and conjugated with

PE under optimal conditions. The solution is free of unconjugated PE and

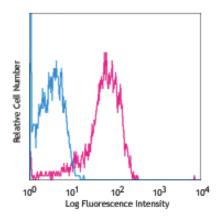
unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



Thrombin-activated human peripheral blood platelets were stained with CD107a (clone H4A3) PE (pink histogram) or mouse IgG1, κ PE (blue histógram).

Applications:

Applications: FC- Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Test size products are transitioning from 20 μl to 5 μl per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μl staining volume or per 100 μl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

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 4. Baron Gaillard CL, et al. 2011. Mol. Cell. Biol. 22:5459. PubMed 5. Hauck CR and Meyer TF. 1997. FEBS Lett. 405:86. (IF, IP) 6. 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

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

PE Mouse IgG1, κ Isotype Ctrl Cell Staining Buffer RBC Lysis Buffer (10X)

Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone MOPC-21

Application FC, ICFC FC, ICC, ICFC FC, ICFC FC, ICC, ICFC



