Product Data Sheet

APC/Cy7 anti-human CD107a (LAMP-1)

Catalog # / Size:	2243150 / 100 tests 2243145 / 25 tests	M A
Clone:	H4A3	
Isotype:	Mouse lgG1, к	elative Cell Number
Immunogen:	Human adult adherent peripheral blood cells	
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 and unconjugated antibody.	0 10 ² 10 ³ 10 ⁴ 10 ⁵ Log Fluorescence Intensity
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	Thrombin-activated human peripheral blood platelets were stained with CD107a (clone H4A3)
Workshop Number:	P PR-63; BP 473; P P008	APC/Cy7 (filled histogram) or mouse IgG1, к APC/Cy7 (open histogram).
Concentration:	Lot-specific	

Applications:

Applications:	Flow Cytometry	
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 5 microL per million cells or 5 microL per 100 microL of whole blood. 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, <i>et al.</i> 1999. <i>Blood</i> 93:2454. Furuta K, <i>et al.</i> 2001. <i>Am. J. Pathol.</i> 159:449. (IHC) Watanabe A, <i>et al.</i> 2011. <i>J. Biol. Chem.</i> 286:10702. <u>PubMed</u> Baron Gaillard CL, <i>et al.</i> 2011. <i>Mol. Cell. Biol.</i> 22:5459. <u>PubMed</u> Hauck CR and Meyer TF. 1997. <i>FEBS Lett.</i> 405:86. (IF, IP) De Keersmaecker B, <i>et al.</i> 2012. <i>J. Virol.</i> 86:9351. <u>PubMed</u> Knodler LA, <i>et al.</i> 2010. <i>P. Natl. Acad. Sci. USA.</i> 107:17733. (IF) Oh J, <i>et al.</i> 2013 <i>PNAS.</i> 110:4753. <u>PubMed</u> 	
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,	
energia vez entre Net for dis montio vez. Net for monte. Como Dista sha la multa villant ha hald montenzi		

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

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 CD8⁺ T cell and NK cell cytotoxicity.

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

3. Sawada R, et al.