## **Product Data Sheet**

## PerCP/Cy5.5 anti-human CD107a (LAMP-1)

Catalog # / Size:	2243075 / 25 tests 2243080 / 100 tests	how the constraints of the cons
Clone:	H4A3	
Isotype:	Mouse IgG1, к	
Immunogen:	Human adult adherent peripheral blood cells	
<b>Reactivity:</b>	Human	
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	
Workshop Number:	P PR-63; BP 473; P P008	
<b>Concentration:</b>	Lot-specific	

## **Applications:**

Applications:	Elow Outomotry	
Applications:	Flow Cytometry	
Recommended Usage:		
	* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.	
Application Notes:	Additional reported applications (for the relevant formats) include: Western blotting <sup>8</sup> , immunohistochemical staining2, immunofluorescence <sup>5,7</sup> , and immunoprecipitation5.	
Application References:	<ol> <li>Misse D, <i>et al.</i> 1999. <i>Blood</i> 93:2454.</li> <li>Furuta K, <i>et al.</i> 2001. <i>Am. J. Pathol.</i> 159:449. (IHC)</li> <li>Watanabe A, <i>et al.</i> 2011. <i>J. Biol. Chem.</i> 286:10702. <u>PubMed</u></li> <li>Baron Gaillard CL, <i>et al.</i> 2011. <i>Mol. Cell. Biol.</i> 22:5459. <u>PubMed</u></li> <li>Hauck CR and Meyer TF. 1997. <i>FEBS Lett.</i> 405:86. (IF, IP)</li> <li>De Keersmaecker B, <i>et al.</i> 2012. <i>J. Virol.</i> 86:9351. <u>PubMed</u></li> <li>Knodler LA, <i>et al.</i> 2010. <i>P. Natl. Acad. Sci. USA.</i> 107:17733. (IF)</li> <li>Oh J, <i>et al.</i> 2013 <i>PNAS.</i> 110:4753. <u>PubMed</u></li> </ol>	
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

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 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 CD8<sup>+</sup> T cell and NK cell cytotoxicity.

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