

# Product Datasheet

## LAMP-1/CD107a Antibody (1D4B) NB100-77683

Unit Size: 0.2 mg

Store at 4C. Do not freeze.

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**NB100-77683****LAMP-1/CD107a Antibody (1D4B)**

<b>Product Information</b>	
<b>Unit Size</b>	0.2 mg
<b>Concentration</b>	0.5 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	1D4B
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	PBS (pH 7.2)
<b>Target Molecular Weight</b>	120 kDa

<b>Product Description</b>	
<b>Host</b>	Rat
<b>Gene ID</b>	3916
<b>Gene Symbol</b>	LAMP1
<b>Species</b>	Mouse
<b>Marker</b>	Late Endosome Marker
<b>Immunogen</b>	Mouse embryo fibroblast tissue culture cell membranes. It has been mapped to the N-terminus of LAMP-1.

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot, Flow Cytometry &lt; = 0.25 ug/10 <sup>6</sup> cells in 100 ul, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Frozen
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunoprecipitation (PMID: 3923938), immunohistochemical staining of acetone-fixed frozen sections (PMID: 3923938 & 3101702) , and immunofluorescence microscopy (PMID: 8647888). Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 25832774). Use in Western blot reported in multiple pieces scientific literature



## Publications

Shin H, Park D, Kim J et al. Peripubertal requirement of Tsg101 in maintaining the integrity of membranous structures in mouse oocytes Cell proliferation 2022-06-29 [PMID: 35768997] (ICC/IF, Mouse)

Li G, Li CX, Xia M et al. Enhanced Epithelial-to-Mesenchymal Transition Associated with Lysosome Dysfunction in Podocytes: Role of p62/Sequestosome 1 as a Signaling Hub. Cell. Physiol. Biochem. 2015-04-02 [PMID: 25832774] (ICC/IF, WB, Mouse)

Gorbunov NV, McDaniel DP, Zhai M et al. Autophagy and mitochondrial remodelling in mouse mesenchymal stromal cells challenged with Staphylococcus epidermidis J. Cell. Mol. Med. 2015-02-26 [PMID: 25721260] (WB, Mouse)

### Details:

LAMP-1/CD107a antibody (clone 1D4B) was used at 1ug/ml concentration in WB for analysis of lysates from bone marrow mesenchymal stromal cells /BMSCs challenged or not with Staphylococcus epidermidis in vitro (Figure 2).

Xu M, Li XX, Chen Y et al. Enhancement of dynein-mediated autophagosome trafficking and autophagy maturation by ROS in mouse coronary arterial myocytes J. Cell. Mol. Med. 2014-06-09 [PMID: 24912985] (WB, Mouse)

### Details:

Antibody used for WB in murine coronary arterial myocytes (CAMs) at 1:1000 dilution (Figure 4E).





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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