

# Product Datasheet

## LAMP-1/CD107a Antibody (5E7) - BSA Free NBP2-52721

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-52721**

LAMP-1/CD107a Antibody (5E7) - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	5E7
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG2b Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	PBS

**Product Description**

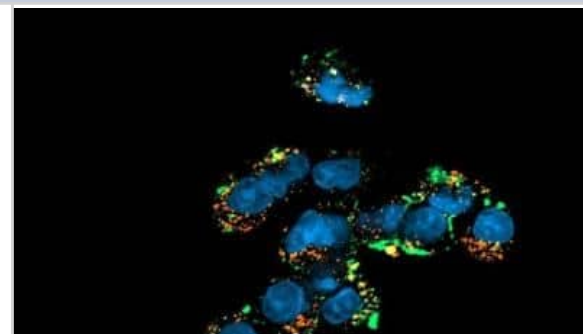
<b>Host</b>	Mouse
<b>Gene ID</b>	3916
<b>Gene Symbol</b>	LAMP1
<b>Species</b>	Human
<b>Immunogen</b>	Partial recombinant protein made to an internal portion of the human LAMP1 protein (between amino acids 200-400) [UniProt P11279]

**Product Application Details**

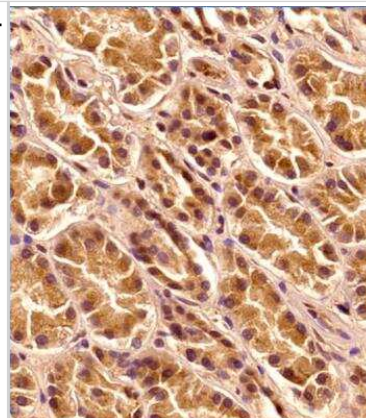
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 2.0 ug/mL, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 5 ug/mL, Immunohistochemistry-Paraffin 1:100

**Images**

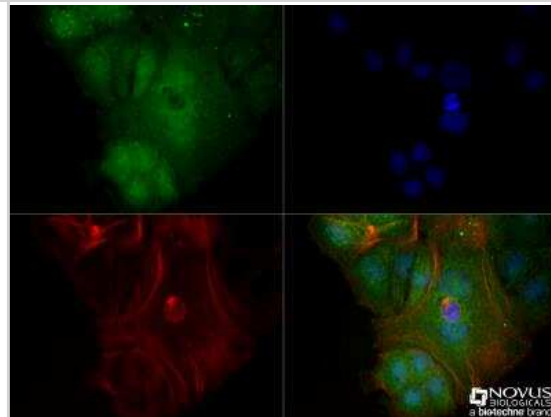
Immunocytochemistry/Immunofluorescence: LAMP-1/CD107a Antibody (5E7) [NBP2-52721] - ICC usage of NBP2-52721. Image submitted via verified customer review.



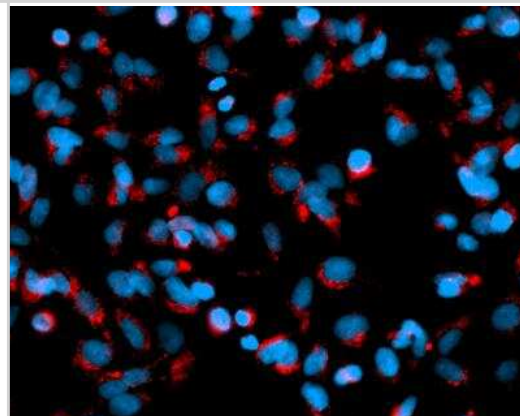
**Immunohistochemistry-Paraffin: LAMP-1/CD107a Antibody (5E7) [NBP2-52721]** - Analysis of FFPE human kidney tissue section using LAMP-1 antibody (clone 5E7) at 1:100 dilution. The antibody generated a specific cytoplasmic staining (with dotted appearance) in all the ductal and tubular epithelial cells.



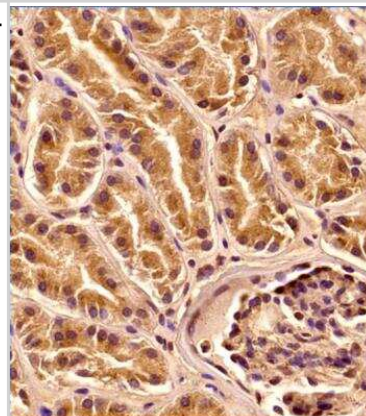
**Immunocytochemistry/Immunofluorescence: LAMP-1/CD107a Antibody (5E7) [NBP2-52721]** - A431 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-LAMP (5E7) at a 1:200 dilution overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



**Immunocytochemistry/Immunofluorescence: LAMP-1/CD107a Antibody (5E7) [NBP2-52721]** - MCF-7 human breast cancer cell line. Secondary antibody goat anti-mouse IgG Fc Dy680 (NBP1-72880). Image from verified customer review.



**Immunohistochemistry-Paraffin: LAMP-1/CD107a Antibody (5E7) [NBP2-52721]** - Analysis of FFPE human kidney tissue section using LAMP-1 antibody (clone 5E7) at 1:100 dilution. The antibody generated a specific cytoplasmic staining (with dotted appearance) in all cells, especially the ductal and tubular epithelial cells. Few cells from the glomeruli showed nuclear signal also.



## Publications

Larionova I, Kiselev A, Kazakova E et al. Tumor-associated macrophages respond to chemotherapy by detrimental transcriptional reprogramming and suppressing stabilin-1 mediated clearance of EGF *Frontiers in immunology* 2023-03-07 [PMID: 36960065] (ICC/IF, Human)

Details:

Dilution used in IHC-P 1:100

Alban TJ, Grabowski MM, Otvos B et al. The MIF promoter SNP rs755622 is associated with immune activation in glioblastoma *JCI insight* 2023-07-10 [PMID: 37252795] (IHC-P, Human)

Details:

1:50 IHC-P dilution

Chen Q, Cao Y, Li H et al. Sodium nitroprusside alleviates nanoplastics-induced developmental toxicity by suppressing apoptosis, ferroptosis and inflammation *Journal of environmental management* 2023-08-01 [PMID: 37536135] (WB, Zebrafish)

Zhang G, Cong Y, Liu FL et al. A nanomaterial targeting the spike protein captures SARS-CoV-2 variants and promotes viral elimination *Nature nanotechnology* 2022-08-22 [PMID: 35995853] (ICC/IF, Human)

Yoon Y, Go G, Yoon S Et Al. Melatonin Treatment Improves Renal Fibrosis via miR-4516/SIAH3/PINK1 Axis Cells 2021-07-03 [PMID: 34359852]

Boukhedouni N, Martins C, Darrigade AS et al. Type-1 cytokines regulate MMP-9 production and E-cadherin disruption to promote melanocyte loss in vitiligo *JCI Insight* 2020-06-04 [PMID: 32369451] (IHC-P, Human)

Koupenova M, Corkrey HA, Vitseva O et al. The role of platelets in mediating a response to human influenza infection. *Nat Commun.* 2018-09-01 [PMID: 30992428] (ICC/IF, Human)

Details:

Citation using the Azide Free form of this antibody.





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### **Products Related to NBP2-52721**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)
NBP2-61619PEP	LAMP-1/CD107a Recombinant Protein Antigen

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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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