

LAMP2 Rabbit mAb

Catalog No: #52109

Package Size: #52109-1 50ul #52109-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

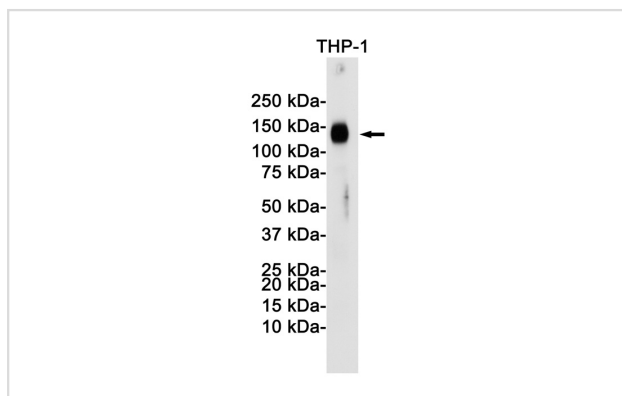
Description

Product Name	LAMP2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S02-3F4
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB IHC
Species Reactivity	Human
Immunogen Description	A synthetic peptide of human LAMP2
Conjugates	Unconjugated
Modification	Unmodification
Other Names	LAMPB; CD107b; LAMP-2; LGP110;
Accession No.	Swiss-Prot:P13473GenelD:3920
Uniprot	P13473
GenelD	3920
Calculated MW	Calculated MW: 45 kDa; Observed MW: 110 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

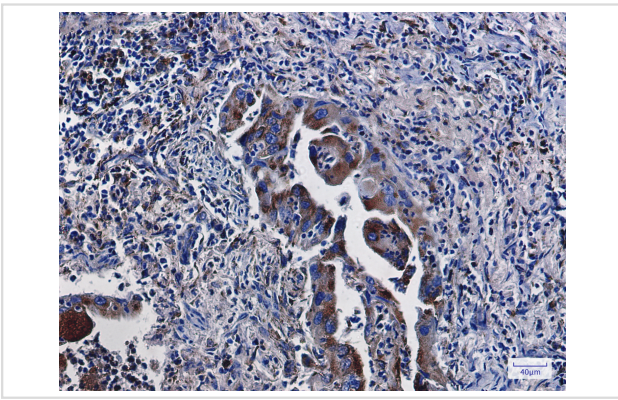
Application Details

WB: 1/1000; IHC: 1/200

Images



Western blot detection of LAMP2 in THP-1 cell lysates using LAMP2 Rabbit mAb(1:1000 diluted). Predicted band size: 45 kDa. Observed band size: 110 kDa.



Immunohistochemistry of LAMP2 in paraffin-embedded Human lung cancer tissue using LAMP2 Rabbit mAb at dilution 1/100

Background

Swiss-Prot Acc.P13473. Plays an important role in chaperone-mediated autophagy, a process that mediates lysosomal degradation of proteins in response to various stresses and as part of the normal turnover of proteins with a long biological half-life (PubMed:8662539, PubMed:11082038, PubMed:18644871, PubMed:24880125, PubMed:27628032). Functions by binding target proteins, such as GAPDH and MLLT11, and targeting them for lysosomal degradation (PubMed:8662539, PubMed:11082038, PubMed:18644871, PubMed:24880125). Plays a role in lysosomal protein degradation in response to starvation. Required for the fusion of autophagosomes with lysosomes during autophagy (PubMed:27628032). Cells that lack LAMP2 express normal levels of VAMP8, but fail to accumulate STX17 on autophagosomes, which is the most likely explanation for the lack of fusion between autophagosomes and lysosomes (PubMed:27628032). Required for normal degradation of the contents of autophagosomes (PubMed:27628032). Required for efficient MHCII-mediated presentation of exogenous antigens via its function in lysosomal protein degradation; antigenic peptides generated by proteases in the endosomal/lysosomal compartment are captured by nascent MHCII subunits (PubMed:20518820). Is not required for efficient MHCII-mediated presentation of endogenous antigens (PubMed:20518820).

Note: This product is for in vitro research use only