

Product datasheet for **TA384644S**

LAMP2 Rabbit Monoclonal Antibody [Clone ID: R03-2J8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R03-2J8
Applications:	IHC, IP, WB
Recommended Dilution:	WB: 1/1000 IHC: 1/20-1/1000 IP: 1/20
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human LAMP2A
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 45 kDa; Observed MW: 110 kDa
Gene Name:	lysosomal associated membrane protein 2
Database Link:	Entrez Gene 3920 Human P13473



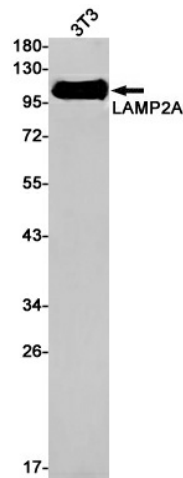
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Background:

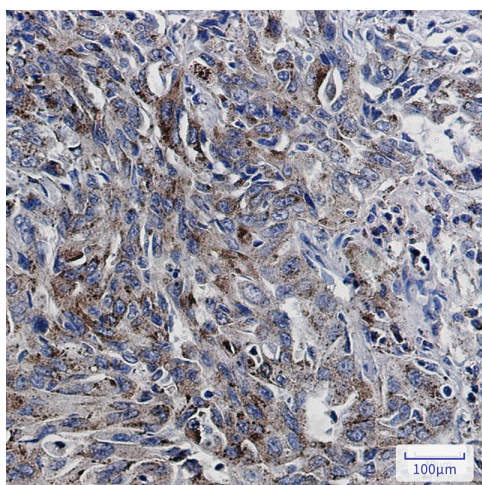
Swiss-Prot Acc.P13473. Plays an important role in chaperone-mediated autophagy, a process that mediates lysosomal degradation of proteins in response to various stresses and as part of the normal turnover of proteins with a long biological half-life (PubMed:8662539, PubMed:11082038, PubMed:18644871, 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).

Synonyms:

CD107b; LAMP-2; LAMPB; LGP110

Product images:

Western blot analysis of LAMP2 in 3T3 lysates using LAMP2A antibody.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer using LAMP2 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.