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APG10L Antibody (C-term S116)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14315c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9H0Y0
Other Accession	Q8R1P4, NP_001124500.1
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB12610
Calculated MW	25279
Antigen Region	96-121

Additional Information

Gene ID	83734
Other Names	Ubiquitin-like-conjugating enzyme ATG10, 632-, Autophagy-related protein 10, APG10-like, ATG10, APG10L
Target/Specificity	This APG10L antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 96-121 amino acids of human APG10L.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	APG10L Antibody (C-term S116) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ATG10
Synonyms	APG10L
Function	E2-like enzyme involved in autophagy. Acts as an E2-like enzyme that

catalyzes the conjugation of ATG12 to ATG5. ATG12 conjugation to ATG5 is required for autophagy. Likely serves as an ATG5-recognition molecule. Not involved in ATG12 conjugation to ATG3 (By similarity). Plays a role in adenovirus-mediated cell lysis.

Cellular Location Cytoplasm.

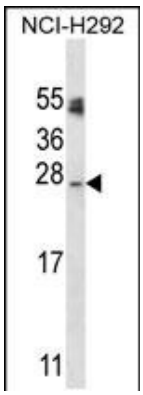
Background

Autophagy is a process for the bulk degradation of cytosolic compartments by lysosomes. ATG10 is an E2-like enzyme involved in 2 ubiquitin-like modifications essential for autophagosome formation: ATG12 (MIM 609608)-ATG5 (MIM 604261) conjugation and modification of a soluble form of MAP-LC3 (MAP1LC3A; MIM 601242), a homolog of yeast Apg8, to a membrane-bound form (Nemoto et al., 2003 [PubMed 12890687]).

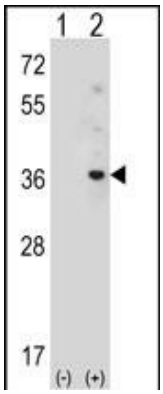
References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Criollo, A., et al. Cell Death Differ. 14(5):1029-1039(2007)
Shao, Y., et al. Autophagy 3(1):10-16(2007)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Boya, P., et al. Mol. Cell. Biol. 25(3):1025-1040(2005)

Images

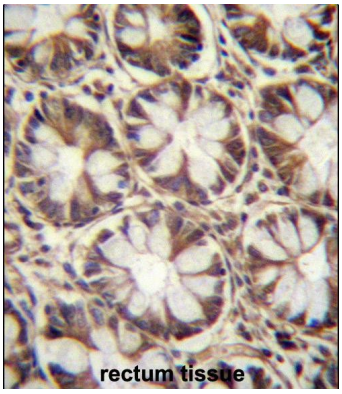


APG10L Antibody (C-term S116) (Cat. #AP14315c) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the APG10L antibody detected the APG10L protein (arrow).



Western blot analysis of APG10L (arrow) using rabbit polyclonal APG10L Antibody (C-term S116) (Cat. #AP14315c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the APG10L gene.

APG10L Antibody (C-term S116) (Cat. #AP14315c)immunohistochemistry analysis in formalin fixed and paraffin embedded human rectum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the



use of ANKS1B APG10L Antibody (C-term S116) for immunohistochemistry. Clinical relevance has not been evaluated.