Datasheet for ABIN6244154

anti-ATG10 antibody (N-Term)

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Overview

Quantity:	400 µL
Target:	ATG10
Binding Specificity:	AA 15-45, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG10 antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This ATG10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 15~45 amino acids from the N-term of human APG10L.
Clone:	RB7550
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	ATG10
Alternative Name:	ATG10 (ATG10 Products)

Target Details

Background:	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). APG10 is an ATG12-conjugating enzyme (E2-like enzyme) that likely serves as an ATG5-recognition molecule. This protein interacts with MAP1LC3A. By interacting with MAP1LC3A, it plays a role in the conjugation of ATG12 to ATG5. APG10 also is able to directly interact either with ATG5 or ATG7.
Molecular Weight:	25279
NCBI Accession:	NP_001124500, NP_113670
UniProt:	Q9H0Y0
Pathways:	ER-Nucleus Signaling, Autophagy

Application Details

Application Notes:	IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

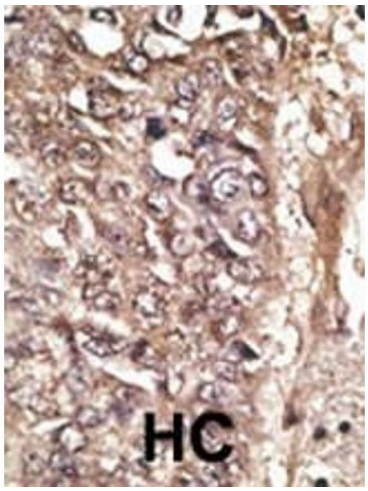
Publications

Product cited in:	Sanchez, Penfornis, Oskowitz, Boonjindasup, Cai, Dhule, Rowan, Kelekar, Krause, Pochampally: " Activation of autophagy in mesenchymal stem cells provides tumor stromal support." in:

Publications

Carcinogenesis, Vol. 32, Issue 7, pp. 964-72, (2011) (PubMed).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.