ATG2A Antibody

Catalog No: #46319

Orders: order@signalwayantibody.com
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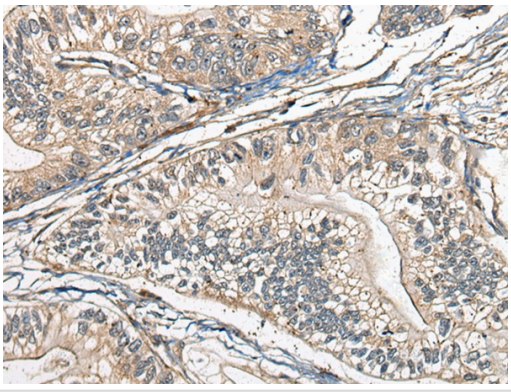
Description

Product Name	ATG2A Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total ATG2A protein.
Immunogen Type	peptide
Immunogen Description	Synthetic peptide corresponding to internal residues of human ATG2A
Target Name	ATG2A
Accession No.	Swiss-Prot:Q2TAZ0NCBI Gene ID:23130NCBI Protein:NP_055919
Uniprot	Q2TAZ0
GeneID	23130;
Concentration	0.7mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Storage	Store at -20°C

Application Details

Immunohistochemistry: 1: 20-100

Images



The image on the left is immunohistochemistry of paraffin-embedded Human gastric cancer tissue using 46319(ATG2A Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: x200)

Background

Atg2A (TG2 autophagy related 2 homolog A) is a 1,938 amino acid protein that belongs to the ATG2 family and may play a role in vesicle assembly. Encoded by a gene that maps to human chromosome 11q13.1, Atg2A is conserved in chimpanzee, dog, cow, mouse and rat, and exists as four alternatively spliced isoforms. Undetected in adult tissues, including heart, brain, placenta, lung, liver and skeletal muscle, Atg2A regulation may act as a distinct indicator of autophagic programmed cell death. Atg2A is upregulated in both etoposide- and doxorubicin-induced apoptosis of HeLa cells, suggesting that Atg2A functions as a novel biomarker of topoisomerase II inhibitor-mediated apoptosis. Atg2A associates with Atg2B, indicating that

these two related proteins also functionally interact. Atg2A frameshift mutations are linked to gastric and colorectal carcinomas with high microsatellite instability and may contribute to cancer development by deregulating the autophagy process. Required for both autophagosome formation and regulation of lipid droplet morphology and dispersion.

Note: This product is for in vitro research use only