

ATG4A Polyclonal antibody

Catalog Number: 27467-1-AP

1 Publications

Basic Information

Catalog Number: 27467-1-AP	GenBank Accession Number: BC061696	Purification Method: Antigen affinity purification
Size: 400 µg/ml	GeneID (NCBI): 115201	Recommended Dilutions: WB 1:500-1:1500 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q8WYNO	
Isotype: IgG	Full Name: ATG4 autophagy related 4 homolog A (S. cerevisiae)	
Immunogen Catalog Number: AG26497	Calculated MW: 45 kDa	
	Observed MW: 45 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : L02 cells, MKN-45 cells IHC : human stomach cancer tissue,
Cited Applications: WB	
Species Specificity: human	
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

ATG4, a member of the cysteine protease family, plays an important role in autophagy induction. ATG4 enzymes cleave the C-terminal amino acid of ATG8 family proteins to reveal a C-terminal glycine that is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes. ATG4A, which may be a target for cancer prevention and intervention, has been reported to be related to breast tumorigenesis, lung cancer, ovarian cancer, cervical cancer and gastric cancer. (PMID: 27276686, 29435029, 28636635)

Notable Publications

Author	Pubmed ID	Journal	Application
Zhenhong Ni	31285423	Cell Death Dis	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

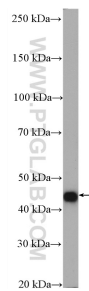
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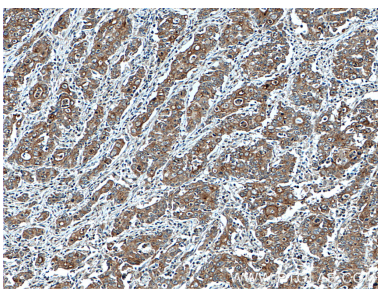
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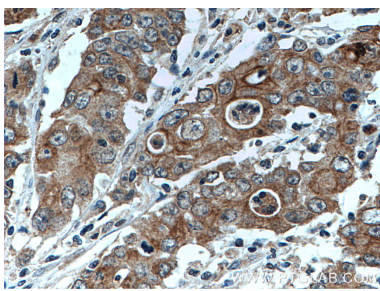
Selected Validation Data



L02 cells were subjected to SDS PAGE followed by western blot with 27467-1-AP (ATG4A antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 27467-1-AP (ATG4A antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 27467-1-AP (ATG4A antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).