

ATG7 Polyclonal antibody

Catalog Number: 28413-1-AP

Basic Information

Catalog Number: 28413-1-AP	GenBank Accession Number: BC000091	Purification Method: Antigen affinity purification
Size: 500 µg/ml	GeneID (NCBI): 10533	Recommended Dilutions: WB 1:1000-1:5000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: O95352	
Isotype: IgG	Full Name: ATG7 autophagy related 7 homolog (S. cerevisiae)	
Immunogen Catalog Number: AG29172	Calculated MW: 78 kDa Observed MW: 68-70 kDa	

Applications

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

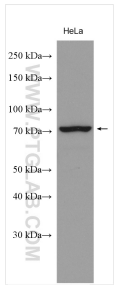
Background Information

Atg7 is an E1-like enzyme that is specifically involved in autophagosome formation and is essential for autophagy. As an autophagic-related protein it is required for linking to Atg12, Atg5 and Atg8, which are essential for Atg conjugation and autophagosome formation. Atg7 has been reported as an important regulator of autophagy with starvation-induced or chemotherapeutic agent treatment. The high expression level of ATG7 is related to the survival of patients with breast cancer. There are several isoforms of ATG7 protein ranged from 68 kDa to 78 kDa.

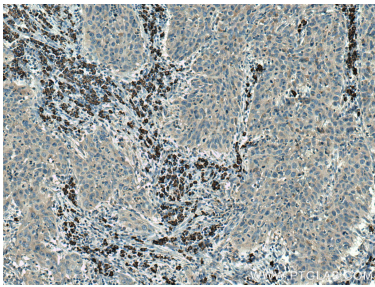
Storage

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

Selected Validation Data



HeLa cell lysates were subjected to SDS PAGE followed by western blot with 28413-1-AP (ATG7 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 28413-1-AP (ATG7 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).