## For Research Use Only

## ATG7 Polyclonal antibody

Catalog Number: 28413-1-AP



**Purification Method:** 

WB 1:1000-1:5000 IHC 1:50-1:500

Antigen affinity purification

Recommended Dilutions:

**Basic Information** 

Catalog Number: GenBank Accession Number: 28413-1-AP BC000091 GeneID (NCBI): Size: 500 μg/ml 10533 **UNIPROT ID:** Source: Rabbit 095352 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

Species Specificity:

Isotype:

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.

Positive Controls:

IHC: human cervical cancer tissue,

WB: HeLa cells,

Storage

Storage:

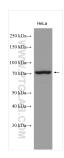
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

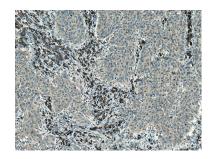
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

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 paraffinembedded 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).