

For Research Use Only

ATG4D Recombinant antibody

Catalog Number: 83951-4-RR



Basic Information

Catalog Number: 83951-4-RR	GenBank Accession Number: BC068992	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 84971	CloneNo.: 241035G8
Source: Rabbit	UNIPROT ID: Q86TLO	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:50-1:500
Isotype: IgG	Full Name: ATG4 autophagy related 4 homolog D (S. cerevisiae)	
Immunogen Catalog Number: AG10177	Calculated MW: 474 aa, 53 kDa	
	Observed MW: 53 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human, rat	WB : A549 cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : rat liver tissue,

Background Information

ATG4D, a member of autophagy-related protein 4 (ATG4) family, plays an interplay role between autophagy and apoptosis in cancers. There are two Atg4 family members-Atg4C and Atg4D-contain cryptic mitochondrial targeting sequences immediately downstream of their canonical(DEVD) caspase cleavage sites. Consequently, caspase-cleaved Atg4D (DN63 Atg4D) localizes to the mitochondrial matrix when expressed in mammalian cells, where it undergoes further processing to a ~42 kDa mitochondrial form.

Storage

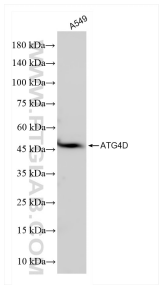
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

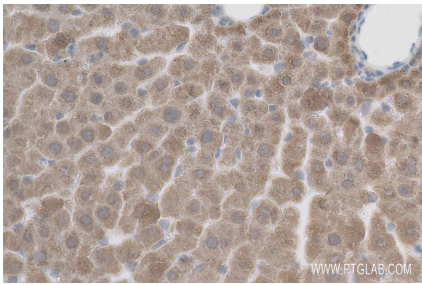
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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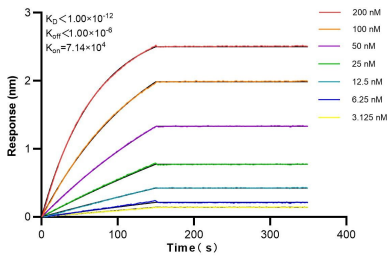
Selected Validation Data



A549 cells were subjected to SDS PAGE followed by western blot with 83951-4-RR (ATG4D antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 83951-4-RR (ATG4D antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83951-4-RR against Human ATG4D were performed. The affinity constant is below 1 pM.