

For Research Use Only

# C19orf73 Polyclonal antibody

Catalog Number:24856-1-AP



## Basic Information

<b>Catalog Number:</b> 24856-1-AP	<b>GenBank Accession Number:</b> BC069712	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 390 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 55150	<b>Recommended Dilutions:</b> IF/ICC: 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NVV2	
<b>Isotype:</b> IgG	<b>Full Name:</b> chromosome 19 open reading frame 73	
<b>Immunogen Catalog Number:</b> AG21567	<b>Calculated MW:</b> 129 aa, 14 kDa	
	<b>Observed MW:</b> 14 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, ELISA	<b>Positive Controls:</b> IF/ICC : A549 cells,
<b>Species Specificity:</b> human	

## Background Information

C19orf73, now officially named Autophagy-related protein 13, is a core regulatory factor in the initiation of cellular autophagy. As a key component of the ULK1/ATG1 complex, this protein plays a critical role in responding to signals such as nutrient deprivation and energy stress. When the mTORC1 pathway is inhibited, ATG13 forms a stable activation complex with proteins including ULK1 and FIP200, initiating autophagosome formation. Dysfunction of ATG13 is closely associated with various diseases: in neurodegenerative disorders, impaired autophagy leads to abnormal protein aggregation; in tumor development, autophagy exerts dual regulatory effects on cancer progression. The expression level and activity of ATG13 are finely regulated by phosphorylation modifications, making it a crucial molecular switch connecting upstream signals with downstream autophagy execution machinery. It has become an important target in both fundamental autophagy research and the development of therapies for related diseases.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

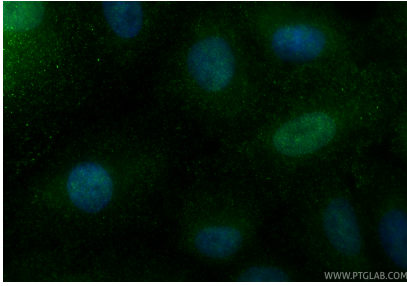
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A549 cells using C19orf73 antibody (24856-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).