

For Research Use Only

C19orf73 Polyclonal antibody, PBS Only

Catalog Number: 24856-1-PBS



Basic Information

Catalog Number: 24856-1-PBS	GenBank Accession Number: BC069712	Purification Method: Antigen affinity purification
Source: Rabbit	GeneID (NCBI): 55150	
Isotype: IgG	UNIPROT ID: Q9NVV2	
Immunogen Catalog Number: AG21567	Full Name: chromosome 19 open reading frame 73	
	Calculated MW: 129 aa, 14 kDa	
	Observed MW: 14 kDa	

Applications

Tested Applications:
IF/ICC, Indirect ELISA

Species Specificity:
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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

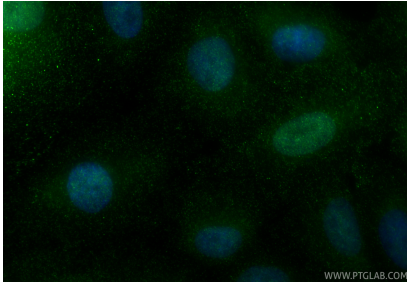
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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). This data was developed using the same antibody clone with 24856-1-PBS in a different storage buffer formulation.