

For Research Use Only

C19orf73 Polyclonal antibody

Catalog Number: 24856-1-AP



Basic Information

Catalog Number:

24856-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG21567

GenBank Accession Number:

BC069712

GeneID (NCBI):

55150

UNIPROT ID:

Q9NVV2

Full Name:

chromosome 19 open reading frame
73

Calculated MW:

129 aa, 14 kDa

Observed MW:

14 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF/ICC: 1:200-1:800

Applications

Tested Applications:

IF/ICC, ELISA

Species Specificity:

human

Positive Controls:

IF/ICC : A549 cells,

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

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

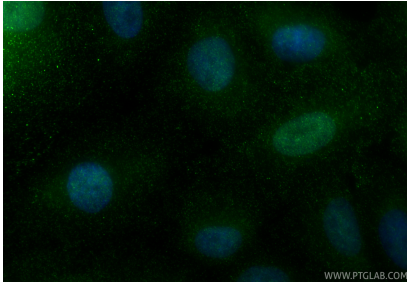
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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).