For Research Use Only

C16orf72 Polyclonal antibody

Catalog Number:24522-1-AP 2 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
24522-1-AP

Size:
150ul , Concentration: 1220 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG21585

GenBank Accession Number:
BC113570

GeneID (NCBI):
29035

UNIPROT ID:
Q14CZ0

Full Name:
chromosome 16 open reading frame 72

Calculated MW:
275 aa, 31 kDa

Observed MW:
35 kDa, 25 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:3000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse

Cited Species:
human

Positive Controls:

WB : HeLa cells, SiHa cells

Background Information

C16orf72, also known as HAPSTR1 (HUWE1-associated protein-modifying stress responses 1) and TAPR1 (telomere attrition and p53 response 1), is a highly conserved protein-coding gene located at chromosome 16p13.2. Its encoded protein functions as a stress-response coordinator, acting as a rheostat that dampens excessive p53 activation upon telomere dysfunction or DNA damage, thereby protecting cells from inappropriate senescence or apoptosis. In addition, C16orf72 is recruited to chromatin under replication stress and participates in the DNA damage response, helping to prevent replication catastrophe. It also exhibits synthetic lethality with telomerase reverse transcriptase (TERT), implicating it in telomere maintenance. Although not listed in conventional cancer gene databases, murine insertional mutagenesis supports its role as a cancer driver, and its elevated expression is associated with poor prognosis in head and neck cancer. Furthermore, copy-number variations at this locus have been linked to neurodevelopmental conditions such as autism spectrum disorder and schizophrenia. Ongoing research continues to elucidate its precise molecular mechanisms, with the aim of uncovering its potential as a therapeutic target in cancer and other diseases.. The MW of C16orf72 is 35 kDa and 25 kDa in our detection.

Notable Publications

Author	Pubmed ID	Journal	Application
Stanislau Yatskevich	42753704	Mol Cell	WB
Dongxiao Li	38643468	Aging (Albany NY)	IF

Storage

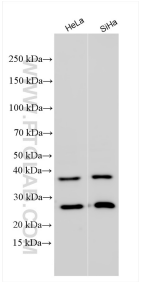
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

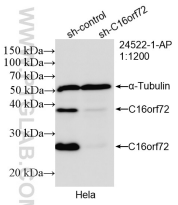
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 24522-1-AP (C16orf72 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



WB result of C16orf72 antibody (24522-1-AP; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-C16orf72 transfected HeLa cells.