For Research Use Only

ANKZF1 Polyclonal antibody

Catalog Number:20447-1-AP 6 Publications

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Basic Information

Catalog Number:
20447-1-AP

Size:
150ul , Concentration: 1100 ug/ml by Nanodrop and 507 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG14285

GenBank Accession Number:
BC000238

GeneID (NCBI):
55139

UNIPROT ID:
Q9H8Y5

Full Name:
ankyrin repeat and zinc finger domain containing 1

Calculated MW:
726 aa, 81 kDa

Observed MW:
81 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:5000-1:50000
IHC: 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : BxPC-3 cells, Caco-2 cells, HeLa cells

IHC : human liver tissue,

Background Information

ANKZF1, the mammalian ortholog of yeast Vms1, functions in the ribosome quality control (RQC) pathway as a tRNA hydrolase that recycles nascent peptides from stalled ribosomes, and it also counterbalances Rqc2-mediated CAT-tailing, thereby limiting the import of CAT-tailed mitochondrial precursor proteins and reducing their aggregation within mitochondria. Under oxidative stress, both Vms1 and ANKZF1 localize to mitochondria and recruit Cdc48/VCP to facilitate mitochondria-associated degradation (MAD), although the physiological requirement for this mitochondrial targeting remains unclear. Notably, recent studies in yeast reveal that VMS1 deletion aggravates proteotoxicity in the mitochondrial matrix, highlighting its essential protective role during mitochondrial stress.

Notable Publications

Author	Pubmed ID	Journal	Application
Suman Rimal	34663454	Acta Neuropathol Commun	WB,IF
Milica Mihailovic	41882226	EMBO J	WB
Yi-Ju Tseng	38412259	Nucleic Acids Res	WB

Storage

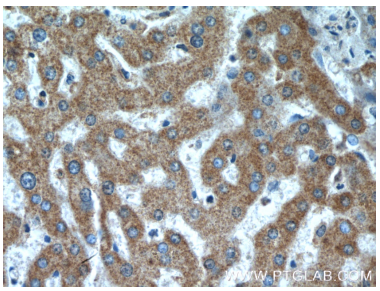
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

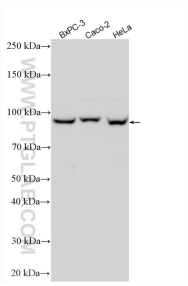
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 20447-1-AP (ANKZF1 antibody) at dilution of 1:200 (under 40x lens).



Various lysates were subjected to SDS PAGE followed by western blot with 20447-1-AP (ANKZF1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.