

For Research Use Only

UFM1 Polyclonal antibody

Catalog Number: 15883-1-AP

5 Publications



Basic Information

Catalog Number:

15883-1-AP

Size:

550 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8667

GenBank Accession Number:

BC005193

GeneID (NCBI):

51569

UNIPROT ID:

P61960

Full Name:

ubiquitin-fold modifier 1

Calculated MW:

85 aa, 9 kDa

Observed MW:

9-12 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IP

Species Specificity:

human, mouse

Cited Species:

human

Positive Controls:

WB: HT-29 cells, HEK-293 cells, HepG2 cells, mouse liver tissue, mouse lung tissue, L02 cells, U-251 cells

IHC: human lung cancer tissue,

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

Background Information

UFM1 (Ubiquitin-fold modifier 1) is a ubiquitin-like protein covalently conjugated with intracellular proteins through UFMylation (modification by UFM1), a process similar to ubiquitylation (PMID: 38141606). UFM1 is conjugated to its target proteins by E1-like activating enzyme UBE1DC1 and E2-like conjugating enzyme UFC1 in a manner analogous to ubiquitylation (PMID: 28234446; 33066455). At the molecular level, UFMylation is an important mediator of the protein function. Dysregulation of the UFM1 system, e.g., the knockout of UFMylation components, disturbs proteome homeostasis and triggers endoplasmic reticulum stress. Such changes are linked to developmental disorders, tumorigenesis, tissue injury, inflammation, and several hereditary neurological syndromes (PMID: 36932998). Western blot images showed that bands larger than 100kd may be proteins modified by UFM1.

Notable Publications

Author	Pubmed ID	Journal	Application
Guangxu Li	39085203	Cell Death Dis	WB
Tingxiang Yan	38903110	bioRxiv	WB
Zhifeng Wang	38762759	Autophagy	WB,IP

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

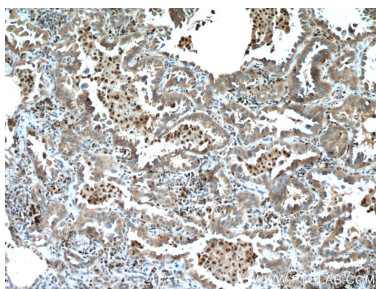
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E: Proteintech-CN@ptglab.com

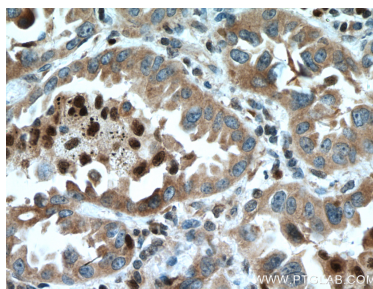
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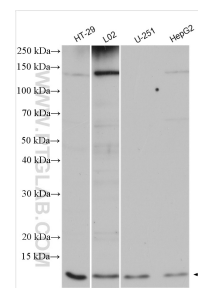
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15883-1-AP (UFM1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15883-1-AP (UFM1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



Various lysates were subjected to SDS PAGE followed by western blot with 15883-1-AP (UFM1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.