

For Research Use Only

HERPUD1 Polyclonal antibody

Catalog Number:10813-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

10813-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1084

GenBank Accession Number:

BC008320

GeneID (NCBI):

9709

UNIPROT ID:

Q15011

Full Name:

homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1

Calculated MW:

44 kDa

Observed MW:

54 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:20-1:200

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : BxPC-3 cells, Tunicamycin treated HepG2 cells, HeLa cells, LNCaP cells, U2OS 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

Homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 1 protein (HERPUD1), also called HERP or MIF1, is component of the endoplasmic reticulum quality control (ERQC) system also called ER-associated degradation (ERAD) involved in ubiquitin-dependent degradation of misfolded endoplasmic reticulum proteins. HERP is strongly induced by ER stress but rapidly degraded by proteasome. HERP interacts with members of the ubiquitin family, which function as a shuttle factor to deliver ubiquitinated substrates to the proteasome for degradation. HERP is present in activated microglia in senile plaques in the brain of patients with Alzheimer disease, and there is evidence suggesting HERP increase nigro-striatal dopaminergic activity and is able to improve symptoms in patients with Parkinson's disease, levodopa-related dyskinesias and Tardive dyskinesia. MW of HERP is 54 kDa (PMID: 23620059).

Notable Publications

Author	Pubmed ID	Journal	Application
Chengdong Liu	33110233	Oncogene	WB
Meir Ofir O	20209087	PLoS One	IHC
Zhuo Jia-Min JM	20164556	J Alzheimers Dis	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

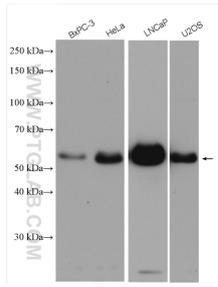
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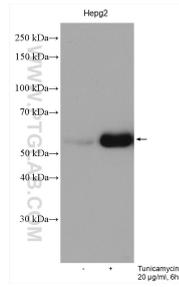
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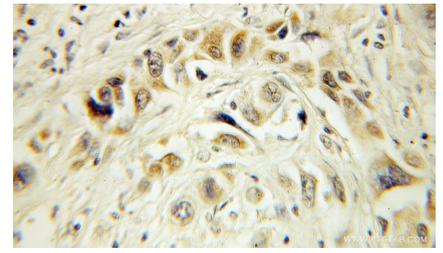
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10813-1-AP (HERP antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Tunicamycin treated HepG2 cells were subjected to SDS PAGE followed by western blot with 10813-1-AP (HERP antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer using 10813-1-AP (HERP antibody) at dilution of 1:100 (under 10x lens).