

## HERP Polyclonal Antibody

Catalog number: 10813-1-AP

Size: 20 µg/150 µl

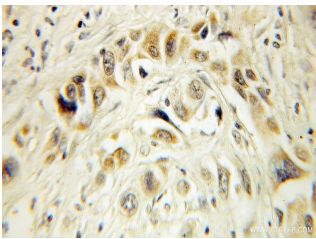
Source: Rabbit

Isotype: IgG

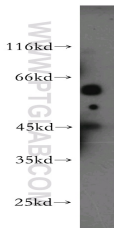
Synonyms:

HERPUD1; HERP, HERPUD1,

KIAA0025, Mif1, SUP



Immunohistochemical of paraffin-embedded human lung cancer using 10813-1-AP (HERPUD1 antibody) at dilution of 1:100 (under 10x lens)



HepG2 cells were subjected to SDS PAGE followed by western blot with 10813-1-AP (HERPUD1 antibody) at dilution of 1:600

### Background

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 ubiquilin 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.

### Applications

Tested applications:	ELISA, WB, IHC
Cited applications:	IF, IHC, WB
Species specificity:	Human; other species not tested.
Cited species:	Human, mouse
Calculated HERP MW:	44 kDa
Observed HERP MW:	52 kDa
Positive WB detected in	HepG2 cells, HeLa cells, SW 1990 cells
Positive IHC detected in	Human lung cancer tissue, human heart tissue, human kidney tissue, human liver tissue, human ovary tissue, human skin tissue, human testis tissue
Recommended dilution:	WB: 1:200-1:2000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag1084
GenBank accession number:	BC008320
Gene ID (NCBI):	9709
Full name:	Homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.