

**HERPUD1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17228A**

**Specification**

**HERPUD1 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O15011</a>
Other Accession	<a href="#">NP_001010989.1</a> , <a href="#">NP_001010990.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	43720
Antigen Region	55-83

**HERPUD1 Antibody (N-term) - Additional Information**

**Gene ID 9709**

**Other Names**

Homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 1 protein, Methyl methanesulfonate (MMF)-inducible fragment protein 1, HERPUD1, HERP, KIAA0025, MIF1

**Target/Specificity**

This HERPUD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 55-83 amino acids from the N-terminal region of human HERPUD1.

**Dilution**

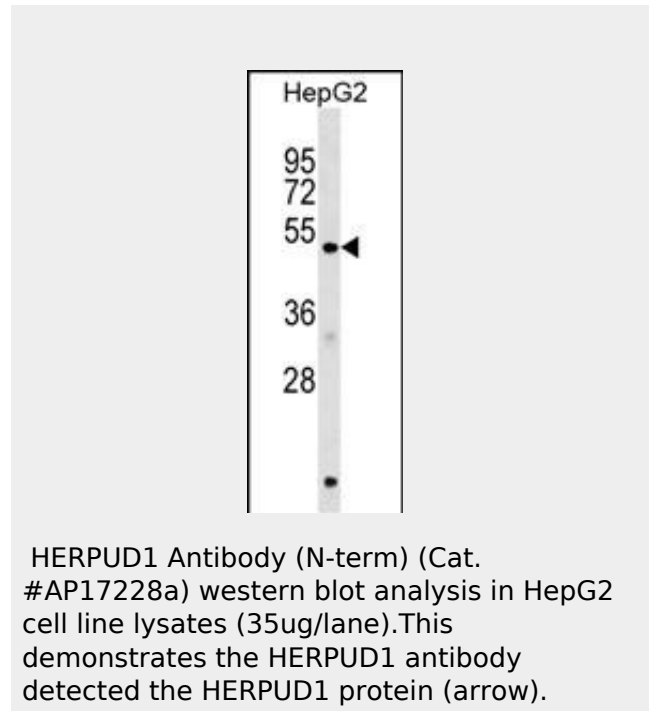
WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C



**HERPUD1 Antibody (N-term) - Background**

The accumulation of unfolded proteins in the endoplasmic reticulum (ER) triggers the ER stress response. This response includes the inhibition of translation to prevent further accumulation of unfolded proteins, the increased expression of proteins involved in polypeptide folding, known as the unfolded protein response (UPR), and the destruction of misfolded proteins by the ER-associated protein degradation (ERAD) system. This gene may play a role in both UPR and ERAD. Its expression is induced by UPR and it has an ER stress response element in its promoter region while the encoded protein has an N-terminal ubiquitin-like domain which may interact with the ERAD system. This protein has been shown to interact with presenilin proteins and

in small aliquots to prevent freeze-thaw cycles.

#### Precautions

HERPUD1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### HERPUD1 Antibody (N-term) - Protein Information

**Name** HERPUD1

**Synonyms** HERP, KIAA0025, MIF1

#### Function

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 (PubMed:<a href="http://www.uniprot.org/citations/16289116" target="\_blank">16289116</a>, PubMed:<a href="http://www.uniprot.org/citations/28827405" target="\_blank">28827405</a>). Could enhance presenilin- mediated amyloid-beta protein 40 generation. Binds to ubiquilins and this interaction is required for efficient degradation of CD3D via the ERAD pathway (PubMed:<a href="http://www.uniprot.org/citations/18307982" target="\_blank">18307982</a>).

#### Cellular Location

Endoplasmic reticulum membrane;  
Multi-pass membrane protein

#### Tissue Location

Widely expressed; in the brain, expression seems to be restricted to neurons and vascular smooth muscle cells. Present in activated microglia in senile plaques in the brain of patients with Alzheimer disease

#### HERPUD1 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

to increase the level of amyloid-beta protein following its overexpression. Alternative splicing of this gene produces multiple transcript variants, some encoding different isoforms. The full-length nature of all transcript variants has not been determined. [provided by RefSeq].

#### HERPUD1 Antibody (N-term) - References

Hirabayashi, Y., et al. J. Immunol. 184(6):3276-3283(2010)  
McLaughlin, M., et al. J. Biol. Chem. 285(10):6960-6969(2010)  
Zabaneh, D., et al. PLoS ONE 5 (8), E11961 (2010) :  
Ridker, P.M., et al. Circ Cardiovasc Genet 2(1):26-33(2009)  
Heid, I.M., et al. Circ Cardiovasc Genet 1(1):10-20(2008)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)