SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-HERPUD1 antibody

Catalog Number: SL15464R

FOR RESEARCH USE ONLY

[DATASHEET]

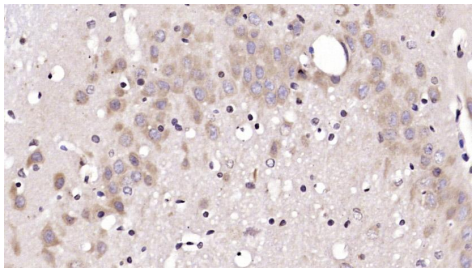
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	HERPUD1
Immunogen:	KLH conjugated synthetic peptide derived from human HERPUD1: 1-100/391
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Pig,Cow,Horse,Rabbit,Sheep)
Predicted MW.:	44kDa
Subcellular Location:	cytoplasmic
Background:	HERPUD1 is a 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 to increase the level of amyloid-beta protein following its overexpression. Alternative splicing of this gene produces multiple transcript variants encoding different isoforms. The full-length nature of all transcript variants has not been determined. [provided by RefSeq, Jan 2013].

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	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. Could enhance presenilin-mediated beta-amyloid protein 40 generation. **Subunit:** Interacts with PSEN1 and PSEN2. Interacts with SYVN1 and UBXN6. **Subcellular Location:** Endoplasmic reticulum membrane; Multi-pass membrane protein. **Tissue Specificity:** 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. **Similarity:** Contains 1 ubiquitin-like domain. **Database links:** **Entrez Gene:** 9709 Human **Entrez Gene:** 64209 Mouse **Entrez Gene:** 85430 Rat Omim: 608070 Human **SwissProt:** Q15011 Human **SwissProt:** Q9JJK5 Mouse **Unigene:** 146393 Human **Unigene:** 29151 Mouse **Unigene:** 4028 Rat

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HERPUD1) Polyclonal Antibody, Unconjugated (SL15464R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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