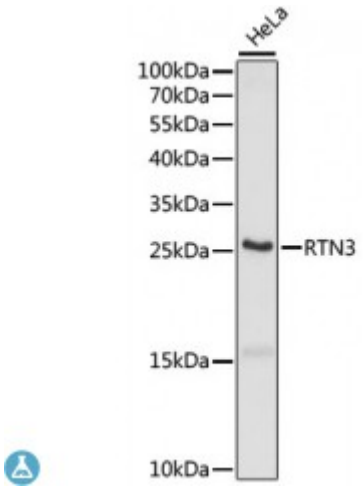
Anti-RTN3 Antibody



Description	This gene belongs to the reticulon family of highly conserved genes that are preferentially expressed in neuroendocrine tissues. This family of proteins interact with, and modulate the activity of beta-amyloid converting enzyme 1 (BACE1), and the production of amyloid-beta. An increase in the expression of any reticulon protein substantially reduces the production of amyloid-beta, suggesting that reticulon proteins are negative modulators of BACE1 in cells. Alternatively spliced transcript variants encoding different isoforms have been found for this gene, and pseudogenes of this gene are located on chromosomes 4 and 12.

Model	STJ117323
Host	Rabbit
Reactivity	Human
Applications	WB
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 100 to the C-terminus of human RTN3 (NP_006045.1).
Gene ID	10313
Gene Symbol	RTN3
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Isoform 3 is widely expressed, with highest levels in brain, where it is enriched in neuronal cell bodies from gray matter (at protein level), Three times more abundant in macula than in peripheral retina, Isoform 1 is expressed at high levels in brain and at low levels in skeletal muscle, Isoform 2 is only found in melanoma

Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Reticulon-3 Homolog of ASY protein HAP Neuroendocrine-specific protein-like 2 NSP-like protein 2 Neuroendocrine-specific protein-like II NSP-like protein II NSPLII
Molecular Weight	112.611 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:10469OMIM:604249Reactome:R-HSA-8849932
Alternative Names	Reticulon-3 Homolog of ASY protein HAP Neuroendocrine-specific protein-like 2 NSP-like protein 2 Neuroendocrine-specific protein-like II NSP-like protein II NSPLII
Function	May be involved in membrane trafficking in the early secretory pathway, Inhibits BACE1 activity and amyloid precursor protein processing, May induce caspase-8 cascade and apoptosis, May favor BCL2 translocation to the mitochondria upon endoplasmic reticulum stress, In case of enteroviruses infection, RTN3 may be involved in the viral replication or pathogenesis, Induces the formation of endoplasmic reticulum tubules ,
Cellular Localization	Endoplasmic reticulum membrane