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RER1 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI12717

Product Information

Application	WB, IHC
Primary Accession	O15258
Other Accession	NM_007033, NP_008964
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Chicken, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22958

Additional Information

Gene ID	11079
Alias Symbol	RP4-740C4.2
Other Names	Protein RER1, RER1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-RER1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	RER1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RER1 {ECO:0000303|PubMed:9309388}
Function	Involved in the retention or retrieval of proteins localized in the endoplasmic reticulum from the early Golgi compartment, including the gamma-secretase complex subunit PEN-2 (PSENEN) (PubMed:17668005). Regulates intracellular trafficking of the gamma- secretase complex and amyloid-beta precursor protein (APP), thereby controlling APP levels at the cell surface and influencing the release of amyloid-beta peptides generated through gamma-secretase mediated processing of APP (PubMed:23043097). During cerebral cortex and neural stem cell development, it is required to maintain sufficient expression and activity of gamma-secretase complex at the cell surface, modulating NOTCH processing and signaling (By similarity). In addition to its role in the control of protein trafficking, the RER1-dependent

Golgi apparatus-endoplasmic reticulum retrieval system may regulate proteasomal degradation of alpha-synuclein (SNCA) (PubMed:17668005, PubMed:23043097, PubMed:28877262).

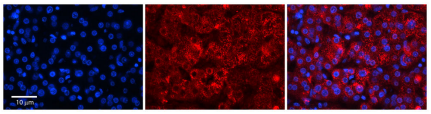
Cellular Location

Golgi apparatus membrane; Multi-pass membrane protein. Golgi apparatus, cis-Golgi network membrane

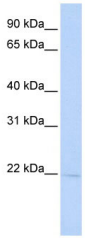
References

Kaether,C.,(2007)EMBORep.8(8),743-748ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.

Images



Rabbit Anti-RER1 Antibody
Formalin Fixed Paraffin Embedded Tissue: Human Adult Liver Observed Staining: Cytoplasm in hepatocytes, strong signal, very wide tissue distribution
Primary Antibody
Concentration: 1:100
Secondary Antibody: Donkey anti-Rabbit-Cy3
Secondary Antibody
Concentration: 1:200
Magnification: 20X
Exposure Time: 0.5 â€“ 2.0 sec
Protocol located in Reviews and Data.



WB Suggested Anti-RER1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: 293T cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.