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[Primary Antibody]

Rabbit Anti-ATRNL1 antibody

Catalog Number: SL11504R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ATRNL1
Immunogen:	KLH conjugated synthetic peptide derived from human ATRNL1: 501-600/1379 <Extracellular>
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 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep)
Predicted MW.:	147kDa
Subcellular Location:	The cell membrane
Background:	ATRNL1 is a 1,379 amino acid single-pass type I membrane protein that may play a role in melanocortin signaling pathways that regulate energy homeostasis. The ATRNL1 protein contains a C-type lectin domain, a CUB domain, two EGF-like domains, six Kelch repeats, two laminin EGF-like domains and five PSI domains. ATRNL1 interacts with MC4-R in several regions known to be important in the regulation of energy homeostasis by melanocortins, such as the paraventricular nucleus of hypothalamus and the dorsal motor nucleus of the vagus. The ATRNL1 gene is conserved in dog, cow, mouse, rat, chicken, zebrafish and C. elegans, exists as two alternatively

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	spliced isoforms and maps to human chromosome 10q25.3. Strong evidence of linkage to late-onset Alzheimer disease (LOAD) is linked to chromosome 10, which implicates a wide region and at least one disease-susceptibility locus. **Function:** May play a role in melanocortin signaling pathways that regulate energy homeostasis. **Subunit:** Interacts with MC4R **Subcellular Location:** Membrane; Single-pass type I membrane protein **Similarity:** Contains 1 C-type lectin domain. Contains 1 CUB domain. Contains 2 EGF-like domains. Contains 6 Kelch repeats. Contains 2 laminin EGF-like domains. Contains 5 PSI domains. **Database links:** **Entrez Gene:** 26033 Human Omim: 612869 Human **SwissProt:** Q5VV63 Human **Unigene:** 501127 Human

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