SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-AGRP antibody

Catalog Number: SL11415R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	AGRP
Immunogen:	KLH conjugated synthetic peptide derived from human AGRP: 31-80/132
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)
Predicted MW.:	12kDa
Subcellular Location:	cytoplasmic Secretory protein
Background:	This gene encodes an antagonist of the melanocortin-3 and melanocortin-4 receptor. It appears to regulate hypothalamic control of feeding behavior via melanocortin receptor and/or intracellular calcium regulation, and thus plays a role in weight homeostasis. Mutations in this gene have been associated with late on-set obesity. **Function:** Plays a role in weight homeostasis. Involved in the control of feeding behavior through the central melanocortin system. Acts as alpha melanocyte-stimulating hormone antagonist by inhibiting cAMP production mediated by stimulation of melanocortin receptors within the hypothalamus and adrenal gland. Has very low activity with MC5R (By similarity). Is an inverse agonist for MC3R and MC4R being able to suppress their constitutive

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	activity. It promotes MC3R and MC4R endocytosis in an arrestin-dependent manner. **Subunit:** Interacts with melanocortin receptors MC3R, MC4R and MC5R. **Subcellular Location:** Secreted. Golgi apparatus lumen. **Tissue Specificity:** Expressed primarily in the adrenal gland, subthalamic nucleus, and hypothalamus, with a lower level of expression occurring in testis, lung, and kidney. DISEASE: Genetic variations in AGRP may be a cause of obesity (OBESITY) [MIM:601665]. It is a condition characterized by an increase of body weight beyond the limitation of skeletal and physical requirements, as the result of excessive accumulation of body fat. **Similarity:** Contains 1 agouti domain. **Database links:** ntrez Gene: 181 Human Omim: 602311 Human **SwissProt:** O00253 Human **Unigene:** 104633 Human

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