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AGRP Rabbit pAb

Catalog # AP98397

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	O00253
Other Accession	O00253
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14440
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human AGRP
Epitope Specificity	31-132/132
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 agouti domain.
SUBUNIT	Interacts with melanocortin receptors MC3R, MC4R and MC5R.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Dec 2009]

Additional Information

Gene ID	181
Other Names	AGRT; ART; ASIP2; AGRP_HUMAN; AGRP; agouti related neuropeptide; agouti (mouse) related protein; agouti related protein homolog (mouse)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	AGRP (HGNC:330)
Synonyms	AGRT, ART
Function	Signaling protein that functions as an antagonist of melanocyte-stimulating-hormone receptors MC3R and MC4R by precluding agonist-induced signaling, thereby inhibiting cAMP production within the hypothalamus and adrenal gland (PubMed:10371151, PubMed:11145747, PubMed:9311920, PubMed:9892020). Involved in the control of feeding behavior via the central melanocortin system (PubMed:15927146, PubMed:9311920). Has very low activity towards MC5R (PubMed:9311920, PubMed:9892020). Also promotes endocytosis of MC3R and MC4R in an arrestin-dependent mechanism (PubMed:17041250).
Cellular Location	Secreted. Golgi apparatus lumen
Tissue Location	Expressed primarily in the adrenal gland, subthalamic nucleus, and hypothalamus, with a lower level of expression occurring in testis, lung, and kidney

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