Agouti Related Protein (AGRP) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Agouti Related Protein (AGRP), Polyclonal Antibody
Full Product Name	PE-Linked Polyclonal Antibody to Agouti Related Protein (AGRP)
Product Gene Name	anti-AGRP antibody
Product Synonym Names	AGRT; ASIP2; ART; Agouti-Related Peptide
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; PBS, pH7.4, containing 0.02% NaN3, 50% glycerol.
Purity/Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Concentration	>=100ug/ml (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against AGRP. It has been selected for its ability to recognize AGRP in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Aliquot and store at -20 degree C for 12 months. Avoid repeated freeze/thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: AGRP (MBS2112100) PE Conjugated Antibody: AGRP (MBS2118564)
OMIM	601665
3D Structure	ModBase 3D Structure for O00253
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Cross Reactivity	Mouse
Conjugation	PE
Product Categories/Family for anti-AGRP antibody	Signal Transduction; Metabolic Pathway; Neuro Science; Hormone Metabolism
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-AGRP antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Related Product Information for anti-AGRP antibody	MBS2118564 is an antibody targeting AGRP. Also known as PE-Linked Polyclonal Antibody to Agouti Related Protein (AGRP). Reactive in Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-AGRP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AGRP. It may not necessarily be applicable to this product.

NCBI GI #	4501995
NCBI GeneID	181
UniProt Primary Accession #	O00253
UniProt Related Accession #	O00253
GenBank Nucleotide #	NP_001129.1
NCBI Official Full Name	agouti-related protein
NCBI Official Synonym Full Names	agouti related neuropeptide
NCBI Official Symbol	AGRP
NCBI Official Synonym Symbols	ART; AGRT; ASIP2
UniProt Protein Name	Agouti-related protein
Protein Family	Agouti-related protein
UniProt Gene Name	AGRP
UniProt Synonym Gene Names	AGRT; ART
UniProt Entry Name	AGRP_HUMAN
NCBI Protein Information	agouti-related protein
NCBI Summary for AGRP	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]
UniProt Comments for AGRP	AGRP: 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. Is an inverse agonist for MC3R and MC4R being able to suppress their constitutive activity. It promotes MC3R and MC4R endocytosis in an arrestin-dependent manner. Genetic variations in AGRP may be a cause of obesity (OBESITY). 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. Protein type: Hormone; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 16q22 Cellular Component: extracellular space; cell soma; Golgi lumen Molecular Function: neuropeptide hormone activity; receptor binding Biological Process: maternal process involved in pregnancy; hormone-mediated signaling; neuropeptide signaling pathway; eating behavior; photoperiodism; feeding behavior; adult feeding behavior; response to insulin stimulus Disease: Obesity
Research Articles on AGRP	**1.** The plasma AgRP levels were higher in those with active acromegaly than in the matched healthy subjects, and decreased after treatment with pegvisomant or with surgery.
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