

Anti-AGRP Picoband Antibody
Catalog # ABO12821**Specification****Anti-AGRP Picoband Antibody - Product Information**

Application	IHC-P, E
Primary Accession	P56473
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for AGRP detection. Tested with IHC-P, Direct ELISA in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-AGRP Picoband Antibody - Additional Information**Gene ID 11604****Other Names**

Agouti-related protein, Agrp, Agrt, Art

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml

 Direct ELISA, 0.1-0.5 µg/ml

Subcellular Localization

Secreted.

Tissue Specificity

Expressed in arcuate nucleus and median eminence, adrenal gland (medulla), hypothalamus, testis, and lung.

Contents

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E. coli-derived mouse AGRP recombinant protein (Position: S82-T131).

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C; for one year. After r°Constitution, at 4°C; for one month. It°Can also be aliquotted and stored frozen at -20°C; for a

longer time. Avoid repeated freezing and thawing.

Anti-AGRP Picoband Antibody - Protein Information

Name Agrp {ECO:0000312|MGI:MGI:892013}

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:9892020). Involved in the control of feeding behavior via the central melanocortin system (By similarity). Has very low activity towards MC5R (PubMed:9892020). Also promotes endocytosis of MC3R and MC4R in an arrestin-dependent mechanism (By similarity).

Cellular Location

Secreted {ECO:0000250|UniProtKB:O00253}. Golgi apparatus lumen {ECO:0000250|UniProtKB:O00253}

Tissue Location

Expressed in arcuate nucleus and median eminence, adrenal gland (medulla), hypothalamus, testis, and lung

Anti-AGRP Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-AGRP Picoband Antibody - Images

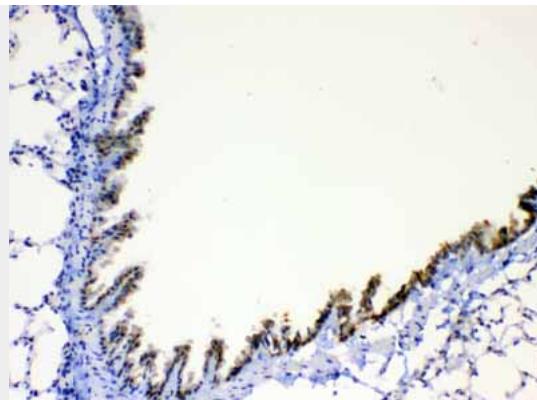


Figure 1. IHC analysis of AGRP using anti-AGRP antibody (ABO12821). AGRP was detected in paraffin-embedded section of mouse lung tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 $\frac{1}{4}$ g/ml rabbit anti-AGRP Antibody (ABO12821) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

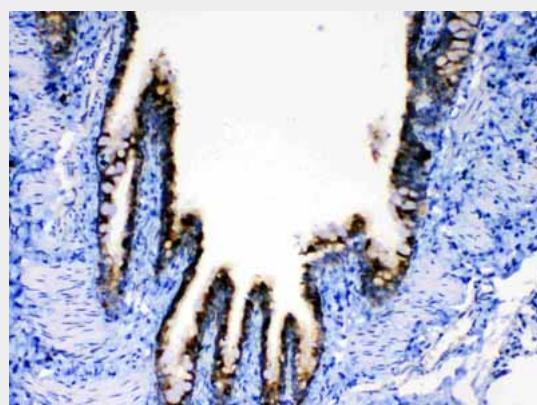


Figure 2. IHC analysis of AGRP using anti-AGRP antibody (ABO12821). AGRP was detected in paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 $\frac{1}{4}$ g/ml rabbit anti-AGRP Antibody (ABO12821) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

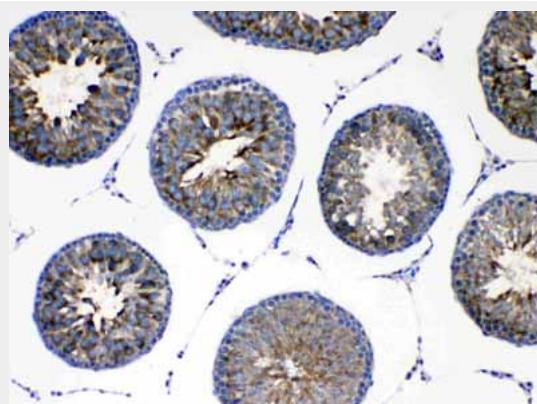


Figure 3. IHC analysis of AGRP using anti-AGRP antibody (ABO12821). AGRP was detected in

paraffin-embedded section of rat testis tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 $\frac{1}{4}$ g/ml rabbit anti-AGRP Antibody (ABO12821) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

Anti-AGRP Picoband Antibody - Background

Agouti-related protein (AgRP), also called agouti-related peptide, is a neuropeptide produced in the brain by the AgRP/NPY neuron. In humans, the agouti-related peptide is encoded by the AGRP gene. 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.