

Anti-AGRP Antibody

Catalog Number: A00272-1

About Agrp

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.

Overview

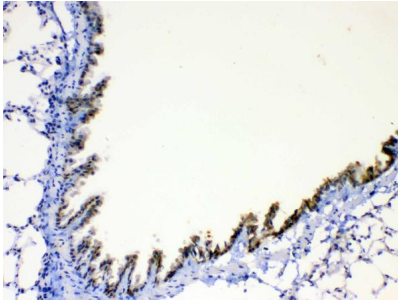
Product Name	Anti-AGRP Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-AGRP Antibody catalog # A00272-1. Tested in ELISA, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P56473

Technical Details

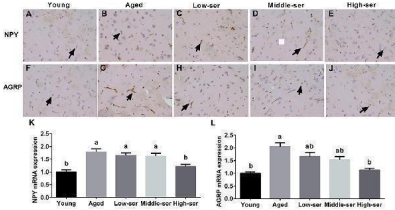
Immunogen	E. coli-derived mouse AGRP recombinant protein (Position: S82-T131).
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml ELISA, 0.1-0.5ug/ml

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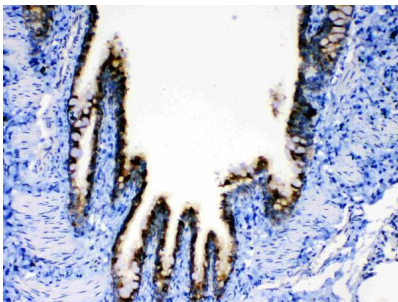
Anti-AGRP Antibody (A00272-1) Images



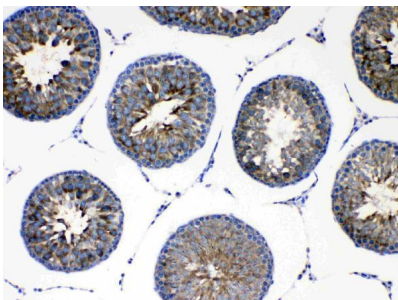
IHC analysis of AGRP using anti-AGRP antibody (A00272-1). AGRP was detected in paraffin-embedded section of mouse lung tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-AGRP Antibody (A00272-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Effects of long-term L-serine administration on orexigenic neuropeptide expression in aging mice. NPY (A-E) and AGRP (F-J) expression as determined by immunohistochemistry; relative NPY (K) and AGRP (L) mRNA expression. Aged, untreated control mice; Low-ser, mice supplemented with 0.1% (wt/vol) L-serine dissolved in the drinking water; Middle-ser, mice supplemented with 0.2% (wt/vol) L-serine dissolved in the drinking water; High-ser, mice supplemented with 0.5% (wt/vol) L-serine dissolved in the drinking water. Young, adult male mice at the age of 18 months. Arrow (yellow), expression of target proteins; NPY, neuropeptide Y; AGRP, agouti-related protein. Values are expressed as mean \pm SEM, n = 8; a, b Means of the bars with different letters were significantly different among groups (P < 0.05). Index in PubMed under a CC BY license. PMID: 30190704



IHC analysis of AGRP using anti-AGRP antibody (A00272-1). 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 1ug/ml rabbit anti-AGRP Antibody (A00272-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



IHC analysis of AGRP using anti-AGRP antibody (A00272-1). 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 1ug/ml rabbit anti-AGRP Antibody (A00272-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

1 Publications Citing This Product

1. PubMed ID: 30190704, Long-Term L-Serine Administration Reduces Food Intake and Improves Oxidative Stress and Sirt1/NF κ B Signaling in the Hypothalamus of Aging Mice

Visit bosterbio.com/anti-agrp-picoband-trade-antibody-a00272-1-boster.html to see all 1 publications.

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Anti-AGRP Antibody

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