

Anti-Neuropeptide S/NPS Antibody

Catalog Number: A01290-1

About NPS

Neuropeptide S (NPS) is a neuropeptide found in human and mammalian brain, mainly produced by neurons in the amygdala and between Barrington's nucleus and the locus coeruleus, although NPS-responsive neurons extend projections into many other brain areas. NPS binds specifically to a G protein-coupled receptor, NPSR. Animal studies show that NPS suppresses anxiety and appetite, induces wakefulness and hyperactivity, including hyper-sexuality, and plays a significant role in the extinction of conditioned fear. It has also been shown to significantly enhance dopamine activity in the mesolimbic pathway, and inhibits motility and increases permeability in neurocrine fashion acting through NO in the myenteric plexus in rats and humans.

Overview

Product Name	Anti-Neuropeptide S/NPS Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Neuropeptide S/NPS Antibody Picoband® catalog # A01290-1. Tested in IHC applications. This antibody reacts with Mouse, Rat.
Application	IHC
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
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	POC0P6

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Neuropeptide S, which shares 80% amino acid (aa) sequence identity with both mouse and rat Neuropeptide S.
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), 2-5ug/ml, Mouse, Rat

Anti-Neuropeptide S/NPS Antibody (A01290-1) Images



IHC analysis of Neuropeptide S using anti-Neuropeptide S antibody (A01290-1). Neuropeptide S was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Neuropeptide S Antibody (A01290-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Neuropeptide S using anti-Neuropeptide S antibody (A01290-1). Neuropeptide S was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Neuropeptide S Antibody (A01290-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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Anti-Neuropeptide S/NPS Antibody

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