

# NPW/Neuropeptide W Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) **Catalog # AP54535** 

## **Specification**

### NPW/Neuropeptide W Polyclonal Antibody - Product Information

IHC-P, IHC-F, IF, ICC, E Application

**Primary Accession 08N729** Reactivity Rat. Bovine Rabbit Host Clonality **Polyclonal** Calculated MW 3 KDa

**Physical State** Immunogen KLH conjugated synthetic peptide derived

Liquid

from human Neuropeptide W

33-55/165 **Epitope Specificity** 

Isotype laG **Purity** 

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION

**SIMILARITY** Belongs to the neuropeptide B/W family. This product as supplied is intended for Important Note research use only, not for use in human, therapeutic or diagnostic applications.

## **Background Descriptions**

affinity purified by Protein A

NPW is a 165 amino acid secreted protein that is cleaved into two chains: neuropeptide W-23 (also designated NPW23 or L8) and neuropeptide W-30 (also known as NPW30 or L8C). Both NPW neuropeptides activate G-protein coupled receptors in the central nervous system to enhance cortisol secretion. Highly expressed in lymphoblastic leukemia, colorectal adenocarcinoma, fetal kidney, trachea and substantia nigra, NPW is also found at low levels in placenta, ovary, testis and uterus. NPW functions in organization of neuroendocrine signals and is also thought to enhance food and water intake as well as stress responses. The gene encoding NPW maps to human chromosome 16p13.3.

### NPW/Neuropeptide W Polyclonal Antibody - Additional Information

#### Gene ID 283869

### **Other Names**

Neuropeptide W, Preproprotein L8, hPPL8, Neuropeptide W-23, NPW23, hL8, Neuropeptide W-30, NPW30, hL8C, NPW, PPL8, PPNPW

#### Target/Specificity

Detected at high levels in the substantia nigra, fetal kidney and trachea; at lower levels in testis, uterus, ovary and placenta. Not detectable in many regions of the central nervous system. Also detected at high levels in lymphoblastic leukemia and colorectal adenocarcinoma.



#### **Dilution**

<span class ="dilution\_IHC-P">IHC-P~~N/A</span><br \> <span class
="dilution\_IHC-F">IHC-F~~N/A</span><br \> <span class
="dilution\_IF">IF~~1:50~200</span><br \> <span class ="dilution\_ICC">ICC~~N/A</span><br \> <span class ="dilution\_E">E~~N/A</span>

#### Storage

Store at -20  $^{\circ}$ 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  $^{\circ}$ C.

## NPW/Neuropeptide W Polyclonal Antibody - Protein Information

**Name NPW** 

Synonyms PPL8, PPNPW

#### **Function**

Plays a regulatory role in the organization of neuroendocrine signals accessing the anterior pituitary gland. Stimulates water drinking and food intake. May play a role in the hypothalamic response to stress (By similarity). NPW23 activates GPR7 and GPR8 more efficiently than NPW30.

## **Cellular Location**

Secreted

#### **Tissue Location**

Detected in cerebrospinal fluid and urine (at protein level) (PubMed:25326458, PubMed:36213313, PubMed:37453717) Detected at high levels in the substantia nigra, fetal kidney and trachea; at lower levels in testis, uterus, ovary and placenta. Not detectable in many regions of the central nervous system. Also detected at high levels in lymphoblastic leukemia and colorectal adenocarcinoma

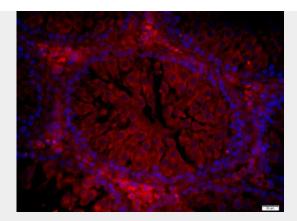
# NPW/Neuropeptide W Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## NPW/Neuropeptide W Polyclonal Antibody - Images





Paraformaldehyde-fixed, paraffin embedded (rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Neuropeptide W) Polyclonal Antibody, Unconjugated (bs-11531R) at 1:400 overnight at 4°C, followed by a conjugated secondary (bs-0295G-Cy3) at [1:500] for 90 minutes and DAPI staining of the nuclei.