

# NPW/Neuropeptide W Rabbit pAb

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Catalog # AP54535

## Product Information

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<b>Application</b>	IHC-P, IHC-F, IF
<b>Primary Accession</b>	<a href="#">Q8N729</a>
<b>Reactivity</b>	Rat
<b>Predicted</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	18048
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human Neuropeptide W
<b>Epitope Specificity</b>	33-55/165
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Secreted
<b>SIMILARITY</b>	Belongs to the neuropeptide B/W family.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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.

## Additional Information

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<b>Gene ID</b>	283869
<b>Other Names</b>	Neuropeptide W, Preproprotein L8, hPPL8, Neuropeptide W-23, NPW23, hL8, Neuropeptide W-30, NPW30, hL8C, NPW, PPL8, PPNPW
<b>Target/Specificity</b>	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.
<b>Dilution</b>	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

<b>Storage</b>	Store at -20 °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 °C.
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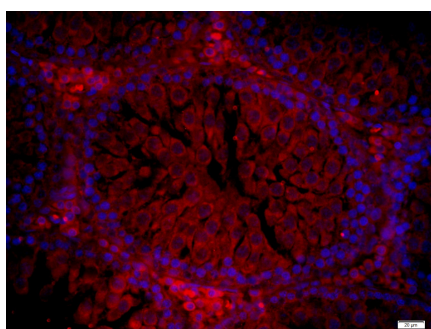
## Protein Information

<b>Name</b>	NPW
<b>Synonyms</b>	PPL8, PPNPW
<b>Function</b>	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.
<b>Cellular Location</b>	Secreted
<b>Tissue Location</b>	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

## Background

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.

## 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 (AP54535) at 1:400 overnight at 4°C, followed by a conjugated secondary (AP54535-Cy3) at [1:500] for 90 minutes and DAPI staining of the nuclei.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.