SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-NPW/Neuropeptide W antibody

Catalog Number: SL11531R

FOR RESEARCH USE ONLY

[DATASHEET]

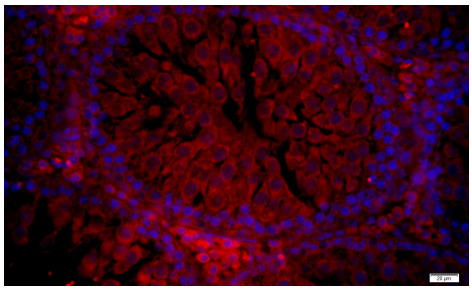
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	NPW/Neuropeptide W
Immunogen:	KLH conjugated synthetic peptide derived from human Neuropeptide W: 33-55/165
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat, (predicted: Human, Mouse, Cow)
Predicted MW.:	3kDa
Subcellular Location:	Secretory protein
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. **Function:** NPW is processed into 23- and 30-amino acid neuropeptides that bind and activate two G-protein coupled receptors in the central nervous

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	system. The neuropeptides have been shown to enhance cortisol secretion from adrenal cells through the adenylate cyclase/protein kinase A signaling cascade. The preproprotein is translated using a non-AUG initiation codon that is inferred from analyses of the mouse ortholog. **Subcellular Location:** Secreted **Tissue 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. **Similarity:** Belongs to the neuropeptide B/W family. **Database links:** **Entrez Gene:** 283869 Human Omim: 607997 Human **SwissProt:** Q8N729 Human

[VALIDATION 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 (SL11531R) at 1:400 overnight at 4°C, followed by a conjugated secondary (SL0295G-Cy3) at [1:500] for 90 minutes and DAPI staining of the nuclei.

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