

For Research Use Only

# Proenkephalin-A Polyclonal antibody

Catalog Number: 13531-1-AP



## Basic Information

### Catalog Number:

13531-1-AP

### Size:

150ul , Concentration: 400 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4428

### GenBank Accession Number:

BC032505

### GeneID (NCBI):

5179

### UNIPROT ID:

P01210

### Full Name:

proenkephalin

### Calculated MW:

267 aa, 31 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

IHC 1:50-1:500

## Applications

### Tested Applications:

IHC, ELISA

### Species Specificity:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

IHC : human testis tissue,

## Background Information

Proenkephalin-A (PENK) is also named as Synenkephalin, Met-enkephalin and Opioid growth factor (OGF), and belongs to the opioid neuropeptide precursor family. PENK is a neuropeptide that competes with and mimics the effects of opiate drugs. They play a role in a number of physiologic functions, including pain perception and responses to stress (PMID:7057924). PENK hypermethylation is also associated with bladder cancer, hepatocellular carcinoma, colorectal cancer, and prostate cancer (PMID:36403035).

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

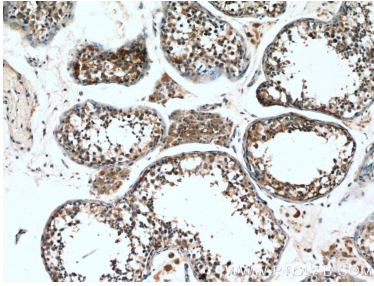
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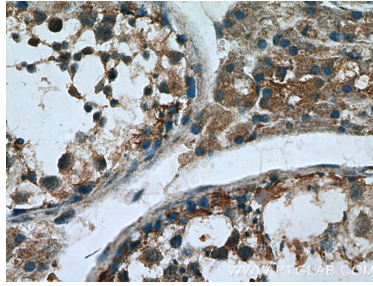
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 13531-1-AP (Proenkephalin-A antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 13531-1-AP (Proenkephalin-A antibody at dilution of 1:200 (under 40x lens).