

For Research Use Only

# Proenkephalin-A Polyclonal antibody, PBS Only

Catalog Number: 32272-1-PBS



## Basic Information

**Catalog Number:**

32272-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by  
Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG27972

**GenBank Accession Number:**

BC032505

**GeneID (NCBI):**

5179

**UNIPROT ID:**

P01210

**Full Name:**

proenkephalin

**Calculated MW:**

267 aa, 31 kDa

**Observed MW:**

32 kDa

**Purification Method:**

Antigen affinity Purification

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, Indirect ELISA

**Species Specificity:**

human, mouse, rat

## 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). Proenkephalin (PENK) represents a new candidate to determine kidney function. This peptide is cleaved from the precursor peptide preproenkephalin A alongside enkephalins (endogenous opioids) and is filtrated in the glomerulus (PMID: 33636859).

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

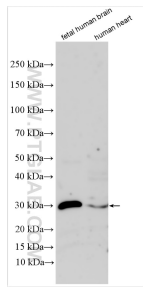
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

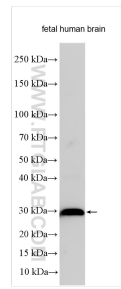
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

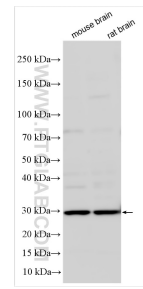
## Selected Validation Data



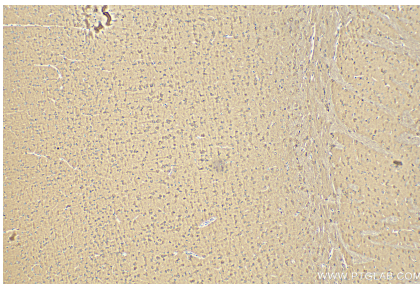
Various lysates were subjected to SDS PAGE followed by western blot with 32272-1-AP (PENK antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 32272-1-PBS in a different storage buffer formulation.



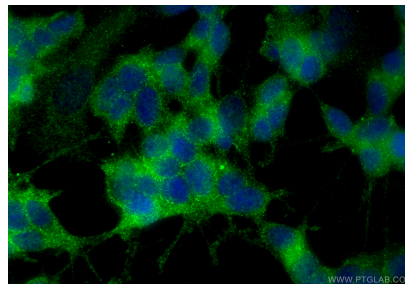
Fetal human brain was subjected to SDS PAGE followed by western blot with 32272-1-AP (Proenkephalin-A antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 32272-1-PBS in a different storage buffer formulation.



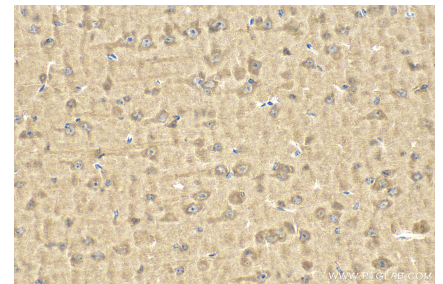
Various lysates were subjected to SDS PAGE followed by western blot with 32272-1-AP (Proenkephalin-A antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 32272-1-PBS in a different storage buffer formulation.



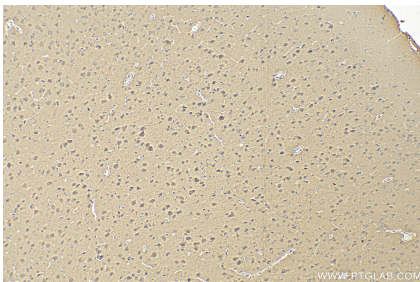
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 32272-1-AP (Proenkephalin-A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 32272-1-PBS in a different storage buffer formulation.



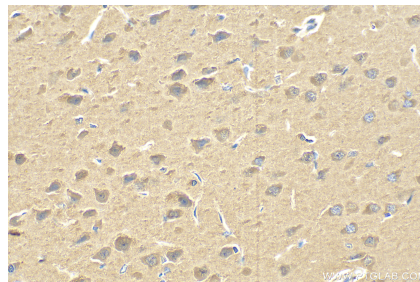
Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using Proenkephalin-A antibody (32272-1-AP) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 32272-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 32272-1-AP (Proenkephalin-A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 32272-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 32272-1-AP (Proenkephalin-A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 32272-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 32272-1-AP (Proenkephalin-A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 32272-1-PBS in a different storage buffer formulation.