

For Research Use Only

Proenkephalin-A Polyclonal antibody

Catalog Number: 32272-1-AP



Basic Information

Catalog Number: 32272-1-AP	GenBank Accession Number: BC032505	Purification Method: Antigen affinity Purification
Size: 150ul , Concentration: 500 ug/ml by Nanodrop;	GeneID (NCBI): 5179	Recommended Dilutions: WB 1:1000-1:4000
Source: Rabbit	UNIPROT ID: P01210	IHC 1:50-1:500
Isotype: IgG	Full Name: proenkephalin	IF/ICC 1:200-1:800
Immunogen Catalog Number: AG27972	Calculated MW: 267 aa, 31 kDa	
	Observed MW: 32 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : fetal human brain tissue, mouse brain tissue, human heart tissue, rat brain tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse brain tissue, rat brain tissue
	IF/ICC : SH-SY5Y cells,

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

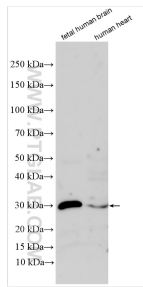
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

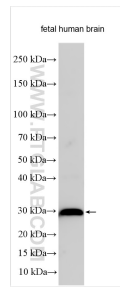
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

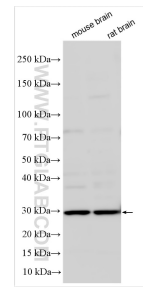
Selected Validation Data



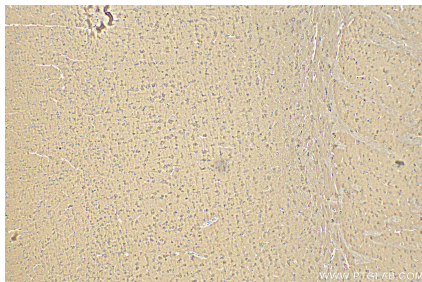
Various lysates were subjected to SDS PAGE followed by western blot with 32272-1-AP (PENK antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



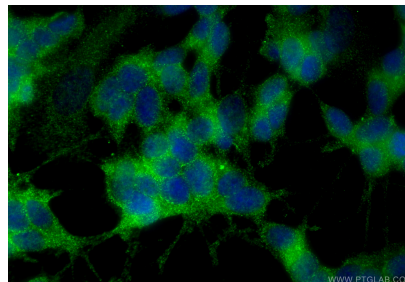
Fetal human brain was subjected to SDS PAGE followed by western blot with 32272-1-AP (Proenkephalin-A antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



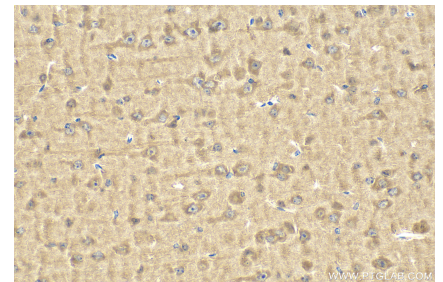
Various lysates were subjected to SDS PAGE followed by western blot with 32272-1-AP (Proenkephalin-A antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



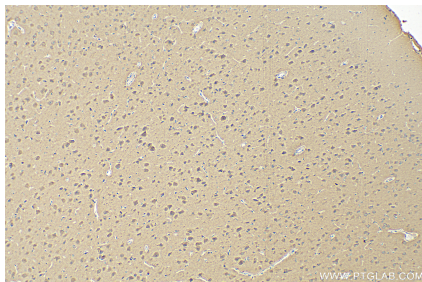
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 32272-1-AP (Proenkephalin-A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



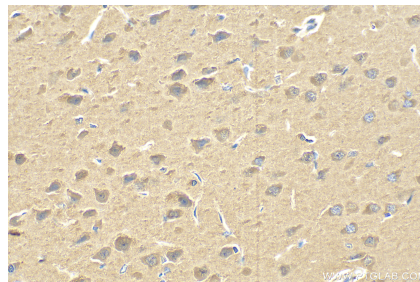
Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using Proenkephalin-A antibody (32272-1-AP) at dilution of 1:400 and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



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).



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).



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).