

PENK Rabbit pAb

Catalog # AP99981

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P01210
Other Accession	P01210
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30787
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PENK
Epitope Specificity	21-120/267
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the opioid neuropeptide precursor family.
Post-translational modifications	The N-terminal domain contains 6 conserved cysteines thought to be involved in disulfide bonding and/or processing.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a preproprotein that is proteolytically processed to generate multiple protein products. These products include the pentapeptide opioids Met-enkephalin and Leu-enkephalin, which are stored in synaptic vesicles, then released into the synapse where they bind to mu- and delta-opioid receptors to modulate the perception of pain. Other non-opioid cleavage products may function in distinct biological activities. [provided by RefSeq, Jul 2015]

Additional Information

Gene ID	5179
Other Names	PE; PENK-A; ENK; PPA; Penk1; Penk-rs; Penk2; PENK_HUMAN; PENK; PENK_MOUSE; PENK_RAT; proenkephalin; preproenkephalin
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,IF=1:50-200
Storage	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.

Protein Information

Name	PENK (HGNC:8831)
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Function	[Met-enkephalin]: Neuropeptide that competes with and mimic the effects of opiate drugs. They play a role in a number of physiologic functions, including pain perception and responses to stress.
Cellular Location	Cytoplasmic vesicle, secretory vesicle, chromaffin granule lumen {ECO:0000250 UniProtKB:P01211}. Secreted {ECO:0000250 UniProtKB:P01211}

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