

**ARG64643**  
anti-Proenkephalin antibodyPackage: 100 µg  
Store at: -20°C

### Summary

Product Description	Goat Polyclonal antibody recognizes Proenkephalin
Tested Reactivity	Ms, Rat
Tested Application	IHC-Fr
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Proenkephalin
Species	Mouse
Immunogen	C-YKDSSKQDESH
Conjugation	Un-conjugated
Alternate Names	143-183; PENK-A; PE; 114-133; Proenkephalin-A; 237-258; OGF; Opioid growth factor

### Application Instructions

Application table	Application	Dilution
	IHC-Fr	0.02 - 0.05 µg/ml

**Application Note** \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

Form	Liquid
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

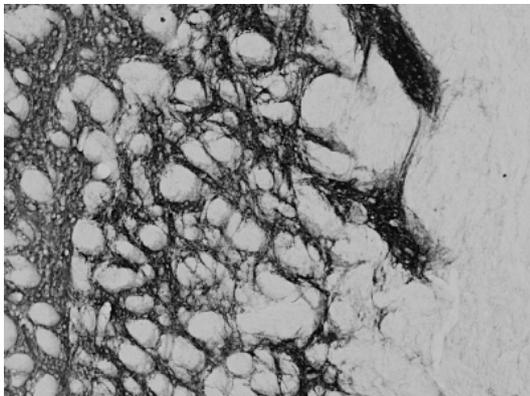
## Bioinformation

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Database links	<a href="#">GeneID: 18619 Mouse</a> <a href="#">GeneID: 29237 Rat</a> <a href="#">Swiss-port # P04094 Rat</a> <a href="#">Swiss-port # P22005 Mouse</a>
Gene Symbol	Penk
Gene Full Name	preproenkephalin
Background	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]
Function	Met- and Leu-enkephalins compete 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. PENK(114-133) and PENK(238-259) increase glutamate release in the striatum. PENK(114-133) decreases GABA concentration in the striatum. [UniProt]
Research Area	Neuroscience antibody
Calculated Mw	31 kDa
PTM	The N-terminal domain contains 6 conserved cysteines thought to be involved in disulfide bonding and/or processing.

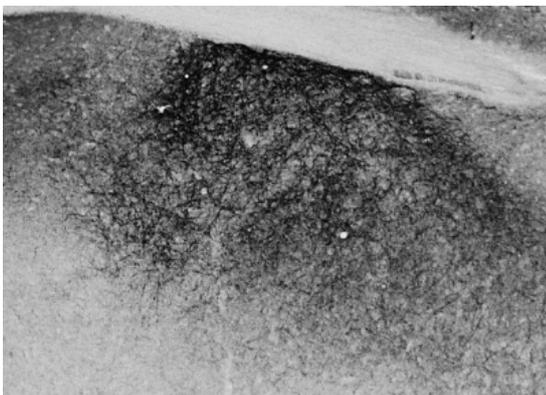
## Images

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ARG64643 anti-Proenkephalin antibody IHC-Fr image

Immunohistochemistry: PFA-perfused cryosection of Rat striatum tissue stained with ARG64643 anti-Proenkephalin antibody at 0.02 µg/ml dilution.



ARG64643 anti-Proenkephalin antibody IHC-Fr image

Immunohistochemistry: PFA-perfused cryosection of Mouse stria terminalis tissue stained with ARG64643 anti-Proenkephalin antibody at 0.02 µg/ml dilution.