# ARG64643
# anti-Proenkephalin antibody

Package: 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.

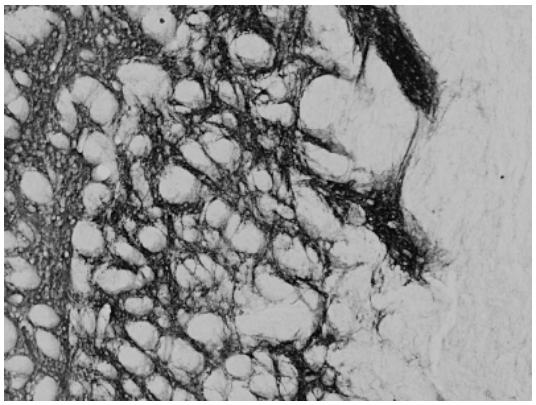
## Properties

| | |
|---|---|
| Form | Liquid |
| Purification | Purified from goat serum by antigen affinity chromatography. |
| 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

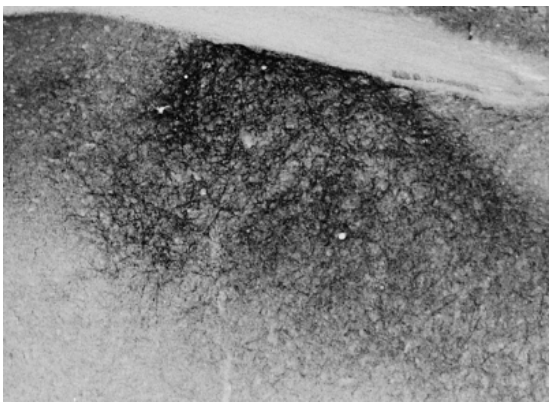
| | |
|---|---|
| Database links | GeneID: 18619 Mouse<br>GeneID: 29237 Rat<br>Swiss-port # P04094 Rat<br>Swiss-port # P22005 Mouse |
| Gene Symbol | Penk |
| Gene Full Name | preproenkephalin |
| Background | This gene encodes a preproprotein that is proteolytically processed to generate multiple protein 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



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.