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PENK Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8724b

Specification

PENK Antibody - Product Information

Application	**WB,E**
Primary Accession	P01210
Reactivity	**Human**
Predicted	**Human**
Host	**Mouse**
Clonality	**monoclonal**
Isotype	**IgG1,κ**
Calculated MW	**30787**

PENK Antibody - Additional Information

Gene ID 5179

Other Names
Proenkephalin-A, Synenkephalin, Met-enkephalin, Opioid growth factor, OGF, PENK(114-133), PENK(143-183), Met-enkephalin-Arg-Gly-Leu, Leu-enkephalin, PENK(237-258), Met-enkephalin-Arg-Phe, PENK

Target/Specificity
This PENK antibody is generated from a mouse immunized with a recombinant protein from the human region of human PENK.

Dilution
WB~~1:2000

Format
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PENK Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PENK Antibody - Protein Information

Name PENK (HGNC:8831)

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.

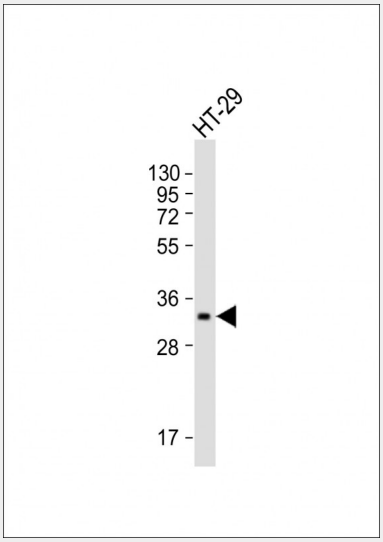
Cellular Location
Cytoplasmic vesicle, secretory vesicle, chromaffin granule lumen {ECO:0000250|UniProtKB:P01211}. Secreted {ECO:0000250|UniProtKB:P01211}

PENK Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PENK Antibody - Images



Anti-PENK Antibody at 1:2000 dilution + HT-29 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

PENK Antibody - Background

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(237-258) increase glutamate release in the striatum. PENK(114-133) decreases GABA concentration in the striatum.

PENK Antibody - References

Comb M.,et al.Nature 295:663-666(1982).
Noda M.,et al.Nature 297:431-434(1982).
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.