

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
E~~Use at an assay dependent concentration.

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

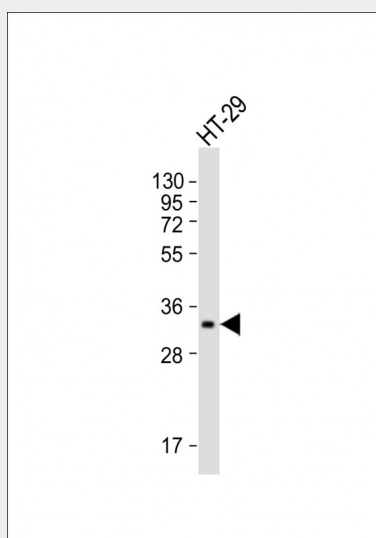
Cytoplasmic vesicle, secretory vesicle, chromaffin granule lumen
{ECO:0000250|UniProtKB:P01211}. Secreted {ECO:0000250|UniProtKB:P01211}

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 Cytometry](#)
- [Cell Culture](#)

PENK Antibody - Images



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