

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

**Specification**

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**PENK Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB,E                   |
| Primary Accession | <a href="#">P01210</a> |
| Reactivity        | Human                  |
| Predicted         | Human                  |
| Host              | Mouse                  |
| Clonality         | monoclonal             |
| Isotype           | IgG1, $\kappa$         |
| 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

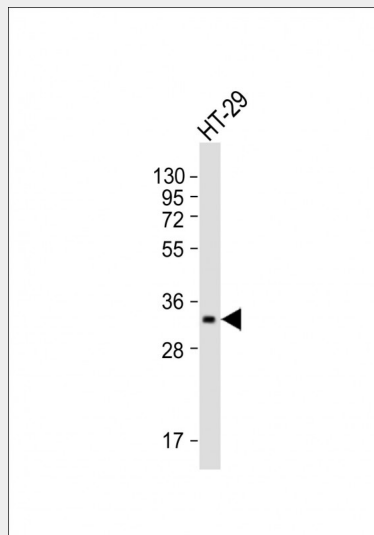
Cytoplasmic vesicle, secretory vesicle, chromaffin granule lumen  
{ECO:0000250|UniProtKB:P01211}. Secreted {ECO:0000250|UniProtKB:P01211}

### 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 Cytometry](#)
- [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% NFD/MTBST.

### 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.