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PENK Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8724b

Product Information

Application	WB, E
Primary Accession	P01210
Reactivity	Human
Predicted	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,κ
Clone Names	2181CT109.65.83
Calculated MW	30787

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.

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}

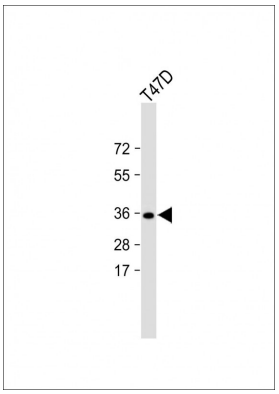
Background

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.

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.

Images



All lanes : Anti-PENK Antibody at 1:2000 dilution Lane 1: T47D whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Mouse IgG/A/M(H/L), Peroxidase conjugated at 1/2000 dilution. Observed band size : 35kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.