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# Datasheet for ABIN238618 anti-Enkephalin antibody (Internal Region)

2	Images
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1 Publication



### Overview

Quantity:	100 µg
Target:	Enkephalin (PENK)
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This Enkephalin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

## Product Details

Purpose:	Proenkephalin
Immunogen:	Peptide with sequence C-RSHHQDGSDNEE, from the internal region of the protein sequence according to NP_006202.1.
Sequence:	RSHHQDGSDN EE
Isotype:	lgG
Cross-Reactivity:	Human
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Grade:	Verified

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## Target Details

Target:	Enkephalin (PENK)
Alternative Name:	PENK (PENK Products)
Background:	Proenkephalin, PENK
Gene ID:	5179
NCBI Accession:	NP_006202
Pathways:	Stem Cell Maintenance

## Application Details

Application Notes:	Immunohistochemistry: Frozen section of Human Hypothalamus shows staining of dense
	enkephalinergic axon plexus and scattered neuronal cell bodies (higher magnification inset) in
	the human infundibular nucleus. Recommended concentration: 0.3-1 $\mu$ g/mL.
	Western Blot: Approx 37 kDa band observed in Human Adrenal Gland lysates (calculated MW of
	30.8 kDa according to NP_006202.1). The observed molecular weight corresponds to earlier
	findings in literature with different antibodies (Normant and Loh, Endocrino
	Peptide ELISA: antibody detection limit dilution 1:32000.
Restrictions:	For Research Use only

# Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Minimize freezing and thawing.
Storage:	-20 °C
Storage Comment:	Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable.

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Skrapits, Borsay, Herczeg, Ciofi, Liposits, Hrabovszky: "Neuropeptide co-expression in hypothalamic kisspeptin neurons of laboratory animals and the human." in: **Frontiers in neuroscience**, Vol. 9, pp. 29, (2015) (PubMed).

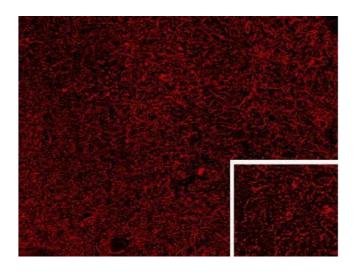
#### Images

ľ	250kDa 150kDa 100kDa 75kDa
	50kDa
-	37kDa
6	25kDa
P	20kDa

15kDa

#### Western Blotting

**Image 1.** ABIN238618 (0.3µg/ml) staining of Human Adrenal Gland lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



#### Immunofluorescence

**Image 2.** ABIN238618 (0.3µg/ml) staining of PFA-perfused cryosection of Human Hypothalamus. Antigen retrieval with citrate buffer pH 6 at 80C for 30min, Cy3-staining. Data obtained by Prof. Erik Hrabovszky, Inst, Exp, Med., Budapest, Hungary.

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