



## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB08195 - Goat Anti-Proenkephalin Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** proenkephalin, PENK

**Official Symbol:** PENK

**Accession Number(s):** NP\_006202.1

**Human GeneID(s):** [5179](#)

### Immunogen

Peptide with sequence C-RSHHQDGSNDNEE, from the internal region of the protein sequence according to NP\_006202.1.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:32000.

**Western blot:** Approx 37kDa band observed in Human Adrenal Gland lysates (calculated MW of 30.8kDa according to NP\_006202.1). The observed molecular weight corresponds to earlier findings in literature with different antibodies (Normant and Loh, Endocrinology. 1998 Apr;139(4):2137-45; PMID: 9529003). Recommended concentration: 1-3µg/ml.

**IHC:** 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: 0.3-1µg/ml.

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human

### Specific Reference

**This antibody has been successfully used in IHC in Human:**

Skrapits K, Borsay B, Herczeg L, Ciofi P, Liposits Z, Hrabovszky E.

Neuropeptide co-expression in hypothalamic kisspeptin neurons of laboratory animals and the human.

Front Neurosci. 2015 Feb 10;9:29.

PMID: 25713511

EB08195 (0.3µg/ml) staining of Human Adrenal Gland lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

EB08195 (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.