

**Antibody to [Leu⁵]Enkephalin**
RABBIT POLYCLONAL

Catalog Number: AB-03
Quantity: 100 microliters
Format: Liquid antisera, no preservative
Host: Rabbit
Immunogen: rat [Leu⁵]Enkephalin

Background: Enkephalins are small peptides derived from large precursors (pro-enkephalin A and B) containing multiple enkephalin copies. They are the most abundant opioid peptides in the body and are widely distributed in the brain and the peripheral nervous system and occur also in the adrenal medulla. Several types of neuroendocrine tumors, including pheochromocytomas, neuroblastomas and bronchial and gastrointestinal endocrine tumors, produce enkephalin. They are released from nerve endings of the central nervous system and the adrenal medulla and act as analgesics and sedatives in the body and appear to affect mood and motivation.

Specificity & Preparation: This antibody recognizes mammalian [Leu⁵]Enkephalin. The immunogen was raised in rabbits against rat [Leu⁵]Enkephalin. The antibody is routinely tested by dot blot.

Usage: Applications include immunoblotting (ATS in-house; 1:1,000) and radioimmunoassay (1:5,000).¹

Storage: Store at 4°C for one month or -20°C in undiluted aliquots for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

**Selected References:**

1. Rossier J, Vargo TM, Minick S, Ling N, Bloom FE, Guillemin R. (1977) Regional dissociation of beta-endorphin and enkephalin contents in rat brain and pituitary. *Proc Natl Acad Sci USA* 74 (11):5162-5165.

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