

Product datasheet for **SP1215**

ProDynorphin (PDYN) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, R
Recommended Dilution:	Radioimmunoassays: 1/10,000. Immunohistochemistry on frozen sections: 1/100 - 1/1500. Immunohistochemistry on paraffin sections: This product requires antigen retrieval using heat treatment prior to staining of paraffin sections; Sodium citrate buffer pH6.0 is recommended for this purpose; overnight incubation is recommended for paraffin sections.
Reactivity:	Human, Monkey, Porcine, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Dynorphin A 1-17
Specificity:	This antibody blocks with dynorphin 1-17 and 1-8 but not with other related peptides. Cells are found in the paraventricular and supraoptic nucleus and fibers are found in the lateral hypothalamus in rat brain of 4% FA perfused colchicine tissue.
Formulation:	PBS containing 0.09% Sodium Azide and 0.1% Bovine Serum Albumin State: Serum State: Liquid serum
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	prodynorphin
Database Link:	Entrez Gene 5173 Human P01213



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Background:

Dynorphin is a class of peptides produced by many different populations of neurons, which has some opiate like activity. It is thus classed as an endogenous opioid peptide. The dynorphins, which include dynorphin A, dynorphin B, alpha- and beta-neoendorphin, and big dynorphin, are all the products of a single gene, 'preprodynorphin'. Dynorphin is produced in many different parts of the brain, including the hypothalamus, the hippocampus and the spinal cord, and has many different physiological actions, depending upon its site of production. Dynorphin is involved in modulating responses to several psychoactive substances, including cocaine. As such, it may help some individuals against addiction. Blocking dynorphin may help alleviate depression.

Synonyms:

Proenkephalin-B, Beta-neoendorphin-dynorphin, Preprodynorphin, Prodynorphin, Alpha-neoendorphin, Beta-neoendorphin, Big dynorphin, Dynorphin A, Leu-enkephalin, Rimorphin, Leumorphin, PENKB