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Big dynorphin Rabbit pAb

Catalog # AP99996

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P01213
Other Accession	P01213
Reactivity	Rat, Human, Mouse
Predicted	Pig, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28385
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Big dynorphin
Epitope Specificity	207-238/254
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the opioid neuropeptide precursor family.
Post-translational modifications	The N-terminal domain contains 6 conserved cysteines thought to be involved in disulfide bonding and/or processing.
DISEASE	Defects in PDYN are the cause of spinocerebellar ataxia type 23 (SCA23) [MIM:610245]. Spinocerebellar ataxia is a clinically and genetically heterogeneous group of cerebellar disorders. Patients show progressive incoordination of gait and often poor coordination of hands, speech and eye movements, due to degeneration of the cerebellum with variable involvement of the brainstem and spinal cord. SCA23 is an adult-onset autosomal dominant form characterized by slowly progressive gait and limb ataxia, with variable additional features, including peripheral neuropathy and dysarthria.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a preproprotein that is proteolytically processed to form the secreted opioid peptides beta-neoendorphin, dynorphin, leu-enkephalin, rimorphin, and leumorphin. These peptides are ligands for the kappa-type of opioid receptor. Dynorphin is involved in modulating responses to several psychoactive substances, including cocaine. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2010]

Additional Information

Gene ID	5173
Other Names	ADCA; PENKB; SCA23; Dyn; PDYN_BOVIN; PDYN; Beta-neoendorphin-dynorphin; Preprodynorphin; PDYN_HUMAN; PDYN_MOUSE; PDYN_RAT; prodynorphin; spinocerebellar ataxia 23;

	preproenkephalin B; rimorphin; beta-neoendorphin; dynorphin; leu-enkephalin; leumorphin; neoendorphin-dynorphin-enkephalin prepropeptide
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PDYN
Function	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 (By similarity).
Cellular Location	Secreted.

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