

ARG22410 anti-Dynorphin B antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Dynorphin B This antibody recognizes dynorphin B, an endogenous opioid peptide, also known as rimorphin with the peptide sequence Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Gln-Phe-Lys-Val-Val-Thr, derived from the sequential cleavage of pro-enkephalin B to form leumorphin which is, in turn cleaved to form dynorphin B (Devi et al. 1985). The cleavage of the dynorphin precursors to form the dynorphin neuropeptides is largely controlled by the serine protease cathepsin L which co-localizes with dynorphins in secretory vesicles of brain cortical neurons (Funkelstein et al. 2010) and prohormone convertase 2, a member of the furin, peptidate S8 family (Schwarzer 2009). Dynorphin b sequence is well conserved among mammal, avian (Youngren et al. 1993) and reptilian (Goldsmith et al. 1992) species. Rabbit anti Dynorphin b antibody is expected to have a wide species cross reactivity.
Tested Reactivity	Ms, Rat, Gpig, Hm, Pig, R. Mk
Predict Reactivity	Hu, Bov, Chimp, Dog, Glla, Hrs
Tested Application	IHC-Fr, RIA
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Dynorphin B
Species	Pig
Immunogen	Synthetic peptide, YGGFLRRQFKVVT, corresponding to full-length porcine dynorphin B (1-13), conjugated to thyroglobulin.
Conjugation	Un-conjugated
Alternate Names	Big Dyn; 1-8; Dynorphin B-29; Dynorphin B; ADCA; SCA23; Preprodynorphin; PENKB; Dyn-A17; 1-17; Proenkephalin-B; Dynorphin A; 1-13; Beta-neoendorphin-dynorphin; Dyn-B

Application Instructions

Application table	Application	Dilution
	IHC-Fr	1:250 - 1:2500
	RIA	1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Buffer	PBS, 0.09% Sodium azide and 1% BSA.
Preservative	0.09% Sodium azide

Stabilizer	1% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	PDYN
Gene Full Name	prodynorphin
Background	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]
Function	<p>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).</p> <p>Dynorphin peptides differentially regulate the kappa opioid receptor. Dynorphin A(1-13) has a typical opiod activity, it is 700 times more potent than Leu-enkephalin (By similarity).</p> <p>Leumorphin has a typical opiod activity and may have anti-apoptotic effect. [UniProt]</p>
Calculated Mw	28 kDa
PTM	The N-terminal domain contains 6 conserved cysteines thought to be involved in disulfide bonding and/or processing.