Product name: Anti-ProDynorphin antibody

Description: Guinea pig polyclonal to ProDynorphin

Host species: Guinea pig

Tested applications: Suitable for: IHC-Fr

Species reactivity: Reacts with: Mouse, Rat

Immunogen: Synthetic peptide: SQENPNTYSEDLDV, corresponding to amino acids 235-248 of Rat ProDynorphin

General notes: 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.

Properties

Form: Liquid

Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Storage buffer: Preservative: 0.05% Sodium azide
Constituent: PBS

Purity: Protein A purified

Primary antibody notes: 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.

Clonality: Polyclonal

Isotype: IgG
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. Dynorphin peptides differentially regulate the kappa opioid receptor. Dynorphin A(1-13) has a typical opioid activity, it is 700 times more potent than Leu-enkephalin. Leumorphin has a typical opioid activity and may have anti-apoptotic effect.

Involvement in 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.

Sequence similarities
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.

Cellular localization
Secreted.

Images
ab10280, at a dilution of 1/500, staining ProDynorphin in rat supraoptic nucleus region by Immunohistochemistry (PFA perfusion fixed frozen sections).

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support
- Replacement or refund for products not performing as stated on the datasheet
• Valid for 12 months from date of delivery
• Response to your inquiry within 24 hours
• We provide support in Chinese, English, French, German, Japanese and Spanish
• Extensive multi-media technical resources to help you
• We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors