


Product datasheet

Anti-Dynorphin B antibody ab11135

1 References

Overview

Product name	Anti-Dynorphin B antibody
Description	Rabbit polyclonal to Dynorphin B
Host species	Rabbit
Specificity	This antibody blocks specifically with Dynorphin B 1-13. Cells are found in the paraventricular hypothalamic and the supraoptic nucleus in rat brain of colchicine treated 4% FA perfused tissue. Fibers are found in the lateral hypothalamus of both colchicine and normal rat brain of 4% FA perfused tissue.
Tested applications	Suitable for: IHC-FoFr, IHC-Fr, RIA
Species reactivity	Reacts with: Rat, Guinea pig, Hamster, Pig, Rhesus monkey Predicted to work with: Mouse, Cow, Human, Xenopus laevis 
Immunogen	Synthetic peptide: YGGFLRRQFKVVT , corresponding to amino acids 1-13 of Pig Dynorphin B. (Prodynorphin 228-240). Run BLAST with Run BLAST with
General notes	This product should be stored undiluted. Storage in frost free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 1% BSA, Whole Serum, PBS
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab11135** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-FoFr		Use at an assay dependent concentration. PubMed: 20206610
IHC-Fr		1/250 - 1/2500.
RIA		1/5000.

Target

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 opiod activity, it is 700 times more potent than Leu-enkephalin. Leumorphin has a typical opiod 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.

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