

RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rabbit Anti-Human Neuropeptide B Antibody

Catalog No:
130-00014

Isotype:
Rabbit IgG

Species:
Human

Accession No:
Q8NG41

Description

Neuropeptide B (NPB) is an endogenous peptide ligand for G protein-coupled receptor-7 (GPR7; MIM 600730). It may be involved in the regulation of feeding, neuroendocrine system, memory, learning and in the afferent pain pathway, by similarity. The deduced 125-amino acid prepropeptide contains an N-terminal 24-amino acid secretory signal and 2 diarginine (dibasic) motifs that are potential peptide-processing sites. In rat, high expression was detected in lymphoid organs, central nervous system (CNS), mammary gland, and uterus. In situ hybridization of rat brain detected expression in hypothalamus and hippocampus.

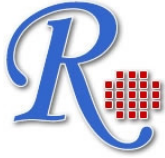
Applications

Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1:64,000
Western Blotting	*			1: 1,000
Enzyme Immunoassay(EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

The immunogen was a synthetic peptide. This antibody was produced from a rabbit immunized with this peptide conjugated with KLH. The IgG fraction was purified from rabbit serum by Protein G affinity chromatography.

Specificity

This antibody specifically binds to human NBP. Cross reactivity with mouse and rat NPB was detected.

Reconstitution

Product is supplied as a powder obtained from lyophilization of purified antibody in PBS without preservatives. Reconstitute the antibody with sterile 1 x PBS to a final concentration of 1 mg/ml.

Storage

Store at 4°C if intended for use within one month, otherwise, store at -20°C to -80°C. The lyophilized antibody is stable for at least 18 months after the date of receipt when stored at -20°C to -80°C. After reconstitution, it can be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 1 month at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

Reference

Fujii, R.; et al. (2002) "Identification of a neuropeptide modified with bromine as an endogenous ligand for GPR7." J. Biol. Chem. 277:34010-34016(2002)

Brezillon, S.; et al. "Identification of natural ligands for the orphan G protein-coupled receptors GPR7 and GPR8." J. Biol. Chem. 278:776-783(2003)

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