

RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Chicken Anti-Human Neuropeptide W Antibody

Catalog No:
130-00012

Isotype:
Chicken IgG

Species:
Human

Accession No:
Q8N729

Description

Neuropeptide W is an endogenous peptide ligand for GPR8, a G protein-coupled receptor. This protein is detected at high levels in the substantia nigra, fetal kidney and trachea; at lower levels in testis, uterus, ovary and placenta, and not detectable in many regions of the central nervous system. It is also detected at high levels in lymphoblastic leukemia and colorectal adenocarcinoma. The product of this gene is processed into 23- and 30-amino acid neuropeptides that bind and activate two G-protein coupled receptors in the central nervous system. The neuropeptides have been shown to enhance cortisol secretion from adrenal cells through the adenylate cyclase/protein kinase A signaling cascade.

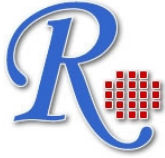
Applications

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 can specifically bind to human Neuropeptide W. Cross reactivity with mouse and rat NPW 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

Shimomura, Y.; et al. (2002) "Identification of neuropeptide W as the endogenous ligand for orphan G-protein-coupled receptors GPR7 and GPR8." J. Biol. Chem. 277:35826-35832(2002)

Brezillon, S.; et al. (2003) "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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