



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rabbit Anti-Human NPY1-36 Antibody

Catalog No: 130-10076	Isotype: Rabbit IgG	Species: Human	Accession No: P01303
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Description

Neuropeptide Y (NPY) is a 36 amino acid peptide hormone found in the neural system and has an important role in obesity. The main effect of NPY is increased food intake and decreased physical activity. It also increases the proportion of energy stored as fat and blocks nociceptive signals to the brain. In addition to its role in obesity, NPY has been associated with a number of other physiologic processes in the brain, including the regulation of energy balance, memory and learning, and epilepsy.

Applications

Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1 : 40,000
Western Blotting			*	
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

Immunogen was synthetic peptide derived from human NPY1-36. This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum followed by Protein A/G affinity chromatography.

Specificity

The antibody can specifically bind to human NPY1-36. Cross reactivity with mouse or rat NPY1-36 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 also be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for at least 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 30 days at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

Related products

1. Rabbit Anti-Human Neuropeptide Y (NPY), C-terminus (cat# RB-08-0016)
2. RayBio® Neuropeptide-Y (NPY) EIA Kit (cat#EIA-NPY-1)

Reference

Kuo LE, et al. .(2007) Neuropeptide Y acts directly in the periphery on fat tissue and mediates stress-induced obesity and metabolic syndrome. Nat. Med. 13 (7): 803 – 11.
Allen, YS et al.. (1983). Neuropeptide Y distribution in the rat brain. Science 221: 877 – 879.

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