



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rabbit Anti-Human Pancreastatin Antibody

Catalog No: 130-10092	Isotype: Rabbit IgG	Species: Human	Accession No: P07492
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Description

Pancreastatin is a 49 amino acid peptide produced by degradation of Chromo-granin A. It inhibits Chromogranin A and Parathyroid Hormone release. Pancreastatin also inhibits release of Somatostatin upon glucose stimulation. It may also control carbohydrate metabolism and hyperglycemia. Although there are no compounds with significant structural homology with Pancreastatin, there are minor similarities to Gastrin and Anti-Diuretic Hormone. Pancreastatin reduces the the early phase of Glucose induced Insulin release. Suppression of Insulin release upon Glucose stimulation is a characteristic feature of Type II Diabetes. Pancreastatin could play an important therapeutic role in the treatment of diabetes. Pancreastatin also inhibits release of Somatostatin. It may also control carbohydrate metabolism and hyperglycemia.

Applications

Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1 : 80,000
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 Pancreastatin. 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 binds to human Pancreastatin. Cross reactivity with mouse or rat Pancreastatin was not tested.

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

RayBio® Pancreastatin EIA Kit (cat#EIA-PAN-1)

Reference

1. González-Yanes C; et al. (2001) "Pancreastatin, a chromogranin A-derived peptide, activates Galpha(16) and phospholipase C-beta(2) by interacting with specific receptors in rat heart membranes." *Cell Signal*. 2001 Jan;13(1):43-9.
2. Piero, E.; et al. (1989) "Pancreastatin Inhibits Insulin Secretion as Induced by Glucagon, Vasoactive Intestinal Polypeptide, Gastric Inhibiting Peptide, and 8-Cholecystokinin in the Perfused Rat." *Pancreas. Metabolism* 38: 679-682.
3. Tatemoto, K.; et al. (1986) "Pancreastatin, A Novel Pancreatic Peptide that Inhibits Insulin Secretion." *Nature* 324: 476-478.

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