



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

Rabbit anti-Glucagon antibody

Catalog No.
130-10007

Isotype:
Rabbit Ig G

Species:
Human

Accession No:
[NP_002045](#)

Description

The proglucagon gene is expressed in both pancreatic A cells and intestinal L cells. Tissue-specific post-translational processing of proglucagon by the prohormone convertase produces the different proglucagon derived peptides (PGDPs) in both pancreas and intestine. The most notable pancreatic PGDP is glucagon, whereas the L cells produce several structurally related peptides, including glucagon-like peptide (GLP)-1 and GLP-2, as well as glicentin and oxyntomodulin, which contain glucagon sequence in their molecules. Among PGDPs, GLP-2 has recently been found to show intestinal epithelial proliferation. GLP-1 has a major effect of enhancing the release of insulin in response to a glucose stimulus, and coincidentally, suppressing secretion of glucagon. GLP-1 has been shown to potently inhibit several aspects of digestive function, including gastric emptying, gastric secretion and pancreatic secretion.

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1:4000(at least detecting 250ng/ml)
Western Blotting			*	
Enzyme Immunoassay(EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

**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 GLP-1. 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 rabbit anti-human Glucagon-like peptide-1 antibody detected specifically target derived from human recombinant protein and cellular lysates. Cross reactivity with mouse and rat GLP-1 was not tested yet.

Reconstitution

Supplied as lyophilized and purified antibody originally containing PBS, without **Preservative Stabilizers**, liking Sodium Azide. **It final concentration is indicated in shipping vial. Please avoid freeze-thaw cycles.**

The antibody is stable for at least years from the data of receipt when stored at -20°C to -70°C . Reconstituted antibody (suggesting with sterile PBS) can also be aliquotted and stored frozen at -20°C to -70°C in a manual defrost freezer for months without detectable loss activity. Upon reconstitution, the antibody can be stored at 4°C for 1 month.

Storage

Store at -20°C , if not intended for use within a month, keep it at 4°C and minimize freezing and thawing when use.

Reference

Tang-Christensen, M and *et al.*, Glucagon-like peptide 1(7-36) amide's central inhibition of feeding and peripheral inhibition of drinking are abolished by neonatal monosodium glutamate treatment. *Diabetes* **47**, 530–537 (1998).

McMahon, L.R. & Wellman, P.J. PVN infusion of GLP-1-(7–36) amide suppresses feeding but does not induce aversion or alter locomotion in rats. *Am. J. Physiol.* **274**, R23–R29 (1998).

Turton, M.D. *et al.* A role for glucagon-like peptide-1 in the central regulation of feeding. *Nature* **379**, 69–72 (1996).

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