

Product Specification Sheet

Glucagon like peptide 2 Receptor (GLP2R) Antibodies

Cat. # GLP2R11-P	Human GLP 2 Receptor Control Peptide # 1	SIZE: 100 ug
Cat. # GLP2R11-A	Rabbit Anti- Human GLP 2 Receptor Ig G # 1 (aff pure)	SIZE: 100 ug

Glucagon is a member of a multigene family comprising of Secretin, Vasoactive Intestinal Peptide (VIP), Gastric Inhibitory Peptide (GIP) and others like Glicentin and Oxyntomodulin (OXM), which differs from glucagon by C-terminal octapeptide. The glucagon precursor contains at least 3 intervening sequences that divide the protein-coding portion into 4 regions corresponding to the signal peptide and part of the N-terminal peptide, the remainder of the N-terminal peptide and glucagon, glucagon-like peptide-1 (GLP1), and GLP2. The GLP 1 & 2 stimulates intestinal growth and up regulates villus height in the small intestine, concomitant with increased crypt cell proliferation and decreased enterocyte apoptosis. The two GLP's are mainly produced in the A cells of the Islets of Langerhans in response to a drop in blood sugar concentration.

GLP2 Receptor, a 550aa protein in rat and 553aa in human (chr 17p13.3). Functions as a receptor for GLP2, the activity is mediated by G proteins which activates the adenylyl cyclase, GLP2 Receptor is expressed in gut and closely related to the receptor for GLP1 (GLP1R).

Source of Antigen and Antibodies

Antigen	18-aa peptide of Human GLP2R; Designated (GLP2R11-P, Control or blocking peptide) conjugated to KLH epitope location~ N- terminus, Extracellular
Antibody host/type	Rabbit, Polyclonal IgG (Cat # GLP2R11-A), purified over antigen-Agarose
Secondary Ab	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available).
Negative Control Ab	Non-immune rabbit IgG (Cat # 20009-1) to be used as -ve control for ELISA, WB, IHC etc.

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG
100 ug/100ul solution lyophilized powder
Supplied in **Buffer:** PBS+0.1% BSA
Reconstitute powder in PBS at 1mg/ml

Control/blocking peptide
100 ug/100 ul solution lyophilized powder
Supplied in Buffer: PBS pH 7.5,
Reconstitute powder in PBS at 1 mg/ml.

Storage

Short-term: unopened, undiluted liquid vials at -20OC and powder at 4oC or -20oC..

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder

Recommended Usage

Western Blotting (1:1K-5K for neat serum and 1-10 ug/ml for affinity pure using Chemiluminescence technique.

ELISA (1:10K-1:100K; using 50-100 ng of control peptide/well).

Histochemistry & Immunofluorescence. We recommend the use of affinity purified antibody at 10-30 ug/ml in formaldehyde fixed, paraffin-embedded tissues (1).

Specificity & Cross-reactivity

The Human GLP2R11-P (18aa) control peptide is 77% & 72% conserved in mouse and rat respectively. No significant sequence homology is detected with other proteins. Actual cross-reactivity of antibodies in various species has not been studied. The GLP2R11-P control peptide, because of its low mol. Wt (<3 kDa), is not suitable for Western. It should be used for ELISA or antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG) to confirm antibody specificity (see detailed protocol at the web site).

General References:

Donald G. Munroe (1999 PNAS) Vol. 96, 1569-1573 ; Yves Rouille, JBC (1995) 270 : 26488-96, Daniel, J. Drucker, (2001) Journal of Clinical Endocrinology and Metabolism, Vol. 86, No:4, 1759-1764.

(2) Citations of ADI's Antibodies (see web site for updated list)

Rocha FG 2004, Journal of Surgical Research, Volume 121, Issue 1, September 2004, Pages 5-12, WB

*This product is for In vitro research use only.

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi - 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com