

GLP-2R (H-57): sc-99092

BACKGROUND

Glucagon, a pancreatic hormone, functions as an antagonist to Insulin, stimulating the conversion of glycogen to glucose and increasing blood sugar levels. GLP-1 functions as a transmitter in the central nervous system, inhibiting feeding and drinking behavior. Both Glucagon and GLP-1 function through their specific binding to the Glucagon Receptor or GLP-1R, respectively. The glucagon receptor is expressed in liver, kidney and adipose tissue. The GLP-1R expression primarily localizes to areas of the hypothalamus involved in feeding behavior. Both receptors and their ligands serve as potential targets for the therapeutic treatment of diabetes. Glucagon-like peptide 2 receptor, also designated GLP-2 receptor or GLP-2R, acts as a receptor for Glucagon-like peptide 2 (GLP-2). GLP-2 is a nutrient-responsive hormone that has various functions in the gastrointestinal tract. The activity of GLP-2R, which is a multi-pass membrane protein, is mediated by G proteins which activate adenylate cyclase.

CHROMOSOMAL LOCATION

Genetic locus: GLP2R (human) mapping to 17p13.1; Glp2r (mouse) mapping to 11 B3.

SOURCE

GLP-2R (H-57) is a rabbit polyclonal antibody raised against amino acids 123-179 mapping within an internal region of GLP-2R of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

GLP-2R (H-57) is recommended for detection of GLP-2R of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for GLP-2R siRNA (h): sc-60695, GLP-2R siRNA (m): sc-60696, GLP-2R shRNA Plasmid (h): sc-60695-SH, GLP-2R shRNA Plasmid (m): sc-60696-SH, GLP-2R shRNA (h) Lentiviral Particles: sc-60695-V and GLP-2R shRNA (m) Lentiviral Particles: sc-60696-V.

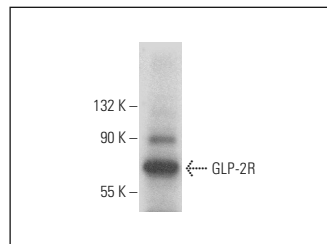
Molecular Weight of GLP-2R: 72 kDa.

Positive Controls: mouse brain extract: sc-2253.

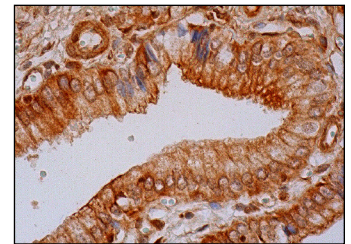
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



GLP-2R (H-57) : sc-99092. Western blot analysis of GLP-2R expression in mouse brain tissue extract.



GLP-2R (H-57): sc-99092. Immunoperoxidase staining of formalin fixed, paraffin-embedded human gall bladder tissue showing membrane and cytoplasmic staining of glandular cells.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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Try **GLP-2R (1F2): sc-293310**, our highly recommended monoclonal alternative to GLP-2R (H-57).