

GLP-2R (M-18): sc-46997

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 adenylyl cyclase.

REFERENCES

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CHROMOSOMAL LOCATION

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

SOURCE

GLP-2R (M-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of GLP-2R of human origin.

RESEARCH USE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-46997 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GLP-2R (M-18) is recommended for detection of mature GLP-2R and GLP-2R precursor of human and, to a lesser extent, mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (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.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.



Try **GLP-2R (1F2): sc-293310**, our highly recommended monoclonal alternative to GLP-2R (M-18).