**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 shows expression in liver, kidney and adipose tissue. 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.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: GLP1R (human) mapping to 6p21.2; Glp1r (mouse) mapping to 6 p21.2; Glp1r (mouse) mapping to 6p21.2.

**SOURCE**

GLP-1R (D-6) is a mouse monoclonal antibody raised against amino acids 91-145 mapping within an N-terminal extracellular domain of GLP-1R of human origin.

**PRODUCT**

Each vial contains 200 µg IgG kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin. GLP-1R (D-6) is available conjugated to agarose (sc-390774 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390774 HRP), 200 µg/ml, for WB, IHCP and ELISA; to either phycoerythrin (sc-390774 PE), fluorescein (sc-390774 FITC), Alexa Fluor® 488 (sc-390774 AF488), Alexa Fluor® 546 (sc-390774 AF546), Alexa Fluor® 594 (sc-390774 AF594) or Alexa Fluor® 647 (sc-390774 AF647), 200 µg/ml, for WB (RGB), IF, IHCP and FCM; and to either Alexa Fluor® 680 (sc-390774 AF680) or Alexa Fluor® 790 (sc-390774 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**RESEARCH USE**

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

**APPLIEDS**

GLP-1R (D-6) is recommended for detection of GLP-1R of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for GLP-1R siRNA (h): sc-45760, GLP-1R siRNA (m): sc-45764, GLP-1R siRNA (r): sc-270026, GLP-1R shRNA Plasmid (h): sc-45760-SH, GLP-1R shRNA Plasmid (m): sc-45764-SH, GLP-1R shRNA Plasmid (r): sc-270026-SH, GLP-1R shRNA (h) Lentiviral Particles: sc-45760-V, GLP-1R shRNA (m) Lentiviral Particles: sc-45764-V and GLP-1R shRNA (r) Lentiviral Particles: sc-270026-V. Molecular Weight of GLP-1R: 56 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, SK-N-SH cell lysate: sc-2410 or human liver extract: sc-363766.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

**DATA**

GLP-1R (D-6): sc-390774. Western blot analysis of GLP-1R expression in MIA PaCa-2 (A), NIH/3T3 (B), WEHI-231 (C), NIH/3T3 (D), RIN-m5F (E) and GO (F) whole cell lysates.

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

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