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GCGR Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5182

Product Information

Application	WB
Primary Accession	P47871
Reactivity	Mouse, Rat, Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54009
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	2642
Other Names	Glucagon receptor, GL-R; GCGR
Dilution	WB~~1:1000
Target/Specificity	This GCGR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human FOXC1.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GCGR Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

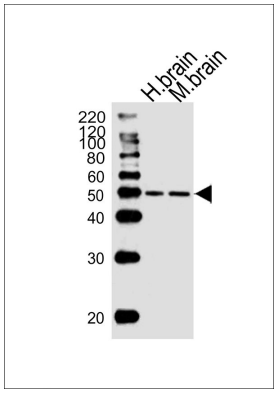
Name	GCGR
Function	G-protein coupled receptor for glucagon that plays a central role in the regulation of blood glucose levels and glucose homeostasis. Regulates the rate of hepatic glucose production by promoting glycogen hydrolysis and gluconeogenesis. Plays an important role in mediating the responses to fasting. Ligand binding causes a conformation change that triggers signaling

	via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase (PubMed:32193322, PubMed:38346960). Promotes activation of adenylate cyclase. Besides, plays a role in signaling via a phosphatidylinositol-calcium second messenger system.
Cellular Location	Cell membrane; Multi-pass membrane protein. Note=Is rapidly internalized after ligand-binding

Background

This is a receptor for glucagon which plays a central role in regulating the level of blood glucose by controlling the rate of hepatic glucose production and insulin secretion. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase and also a phosphatidylinositol-calcium second messenger system.

Images



Western blot analysis of lysates from human brain and mouse brain tissue (from left to right), using GCGR Antibody (Center)(Cat. #AW5182). AW5182 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.