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GLP-1R Rabbit pAb

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Catalog # AP52040

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P32301
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52877
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from rat GLP-1R
Epitope Specificity	101-200/463
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein.
SIMILARITY	Belongs to the G-protein coupled receptor 2 family.
SUBUNIT	May form homodimers and heterodimers with GIPR.
Post-translational modifications	N-glycosylation enhances cell surface expression and lengthens receptor half-life by preventing degradation in the ER.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GLP1R is a receptor for glucagon-like peptide 1. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase.It has been suggested that this protein influences the feelings of satiety or hunger, sensation of glucose levels, control of glucagon sensitivity of islets, and non insulin-dependent diabetes mellitus. GLP1R is believed to be expressed in human pancreas,lung, brain, stomach, kidney and heart. ESTs have been isolated from skin and kidney libraries.

Additional Information

Gene ID	25051
Other Names	Glucagon-like peptide 1 receptor, GLP-1 receptor, GLP-1-R, GLP-1R, Glp1r, Glpr
Dilution	WB=1:500-2000,IHC-P=1:200-1000,IHC-F=1:200-1000,IF=1:200-1000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Glp1r
Synonyms	Glpr
Function	G-protein coupled receptor for glucagon-like peptide 1 (GLP- 1) (PubMed:1326760, PubMed:7527026, PubMed:7813606). Ligand binding triggers activation of a signaling cascade that leads to the activation of adenylyl cyclase and increased intracellular cAMP levels (PubMed:1326760, PubMed:7813606). Plays a role in regulating insulin secretion in response to GLP-1 (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P43220}
Tissue Location	Pancreatic islets, stomach, lung, rat insulinoma cell line.

Background

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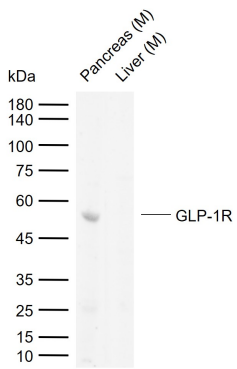
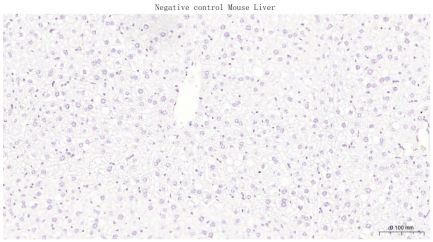
References

Flamez D.,et al.Diabetes 47:646-652(1998).
Kumar K.G.,et al.Am. J. Physiol. 292:R207-R216(2007).
Watanabe K.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).

Images



Sample:
Lane 1: Mouse Pancreas tissue lysates
Lane 2: Mouse Liver tissue lysates(negative control)
Primary: Anti-GLP-1R (AP52040) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 51 kDa
Observed band size: 55 kDa



(Negative control) Paraformaldehyde-fixed, paraffin embedded Mouse Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GLP-1R Polyclonal Antibody, Unconjugated (AP52040) at 1:800 overnight at 4°C, followed by conjugation to the AP52040-HRP and DAB (C-0010) staining.

Citations

- Geniposide Ameliorated Dexamethasone-Induced Cholesterol Accumulation in Osteoblasts by Mediating the GLP-1R/ABCA1 Axis
- Liraglutide, a glucagon-like peptide-1 receptor agonist, facilitates osteogenic proliferation and differentiation in MC3T3-E1 cells through phosphoinositide 3-kinase (PI3K)/protein kinase B (AKT), extracellular signal-related kinase (ERK)1/2, and cAMP/protein kinase A (PKA) signaling pathways involving β-catenin.