SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-GLP-1R antibody

Catalog Number: SL1559R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	GLP-1R
Immunogen:	KLH conjugated synthetic peptide derived from rat GLP-1R: 101-200/463 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:200-1000 IHC-F=1:200-1000 IF=1:200-1000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, Rat, (predicted: Dog)
Predicted MW.:	51kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	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. **Function:** This is a receptor for glucagon-like peptide 1. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase. **Subunit:** May form homodimers and heterodimers with GIPR. **Subcellular Location:** Cell membrane; Multi-pass membrane protein.

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	Post-translational modifications: N-glycosylation enhances cell surface expression and lengthens receptor half-life by preventing degradation in the ER. **Similarity:** Belongs to the G-protein coupled receptor 2 family. **Database links:** **Entrez Gene:** 2740 Human **Entrez Gene:** 14652 Mouse **Entrez Gene:** 25051 Rat Omim: 138032 Human **SwissProt:** P43220 Human **SwissProt:** O35659 Mouse **SwissProt:** P32301 Rat **Unigene:** 389103 Human **Unigene:** 390969 Mouse **Unigene:** 11408 Rat GLP-1Ris the main target of GLP-1 action in vivo,It is a 7-transmembraneG protein-coupled receptor,with cAMP as the primary second messenger. The binding process of GLP-1 to GLP-1R is a two-domain interaction process,are all closely related to insulin secretion and glucose metabolism regulation。

[VALIDATION IMAGES]

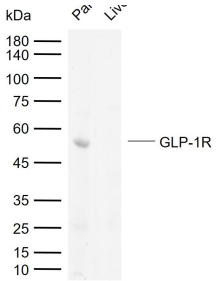


Figure 1. Sample: Lane 1: Mouse Pancreas tissue lysates Lane 2: Mouse Liver tissue lysates(negative control) Primary: Anti-GLP-1R (SL1559R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 51 kDa Observed band size: 55 kDa

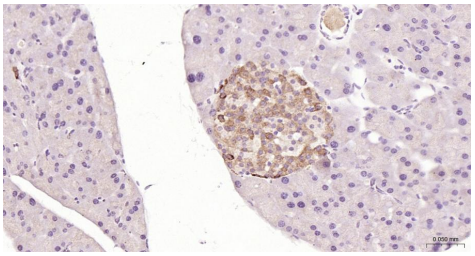


Figure 2. Paraformaldehyde-fixed, paraffin embedded Mouse Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GLP-1R Polyclonal Antibody, Unconjugated (SL1559R) at 1:800 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

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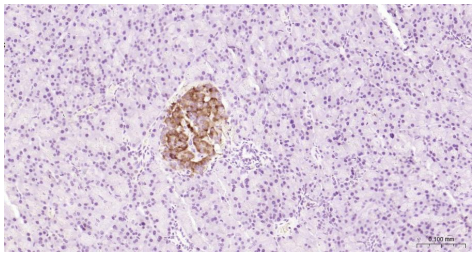


Figure 3. Paraformaldehyde-fixed, paraffin embedded Rat Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GLP-1R Polyclonal Antibody, Unconjugated (SL1559R) at 1:800 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

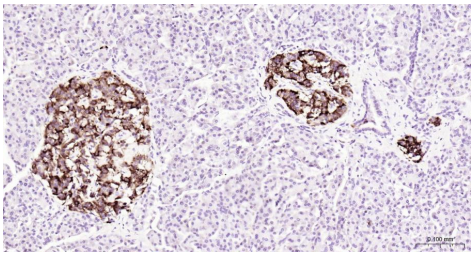


Figure 4. Paraformaldehyde-fixed, paraffin embedded Human Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GLP-1R Polyclonal Antibody, Unconjugated (SL1559R) at 1:800 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

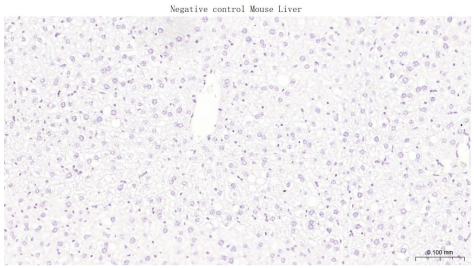


Figure 5. (Negative control) Paraformaldehyde-fixed, paraffin embedded Mouse Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GLP-1R Polyclonal Antibody, Unconjugated (SL1559R) at 1:800 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

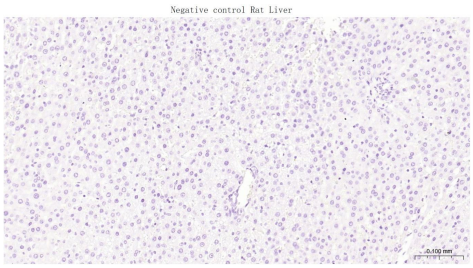


Figure 6. (Negative control) Paraformaldehyde-fixed, paraffin embedded Rat Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GLP-1R Polyclonal Antibody, Unconjugated (SL1559R) at 1:800 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

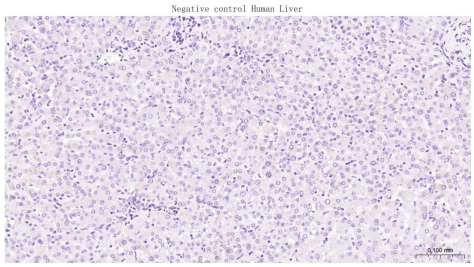


Figure 7. (Negative control) Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GLP-1R Polyclonal Antibody, Unconjugated (SL1559R) at 1:800 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

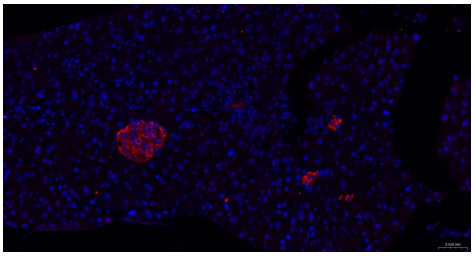


Figure 8. Paraformaldehyde-fixed, paraffin embedded Rat Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with GLP-1R Polyclonal Antibody, Unconjugated (SL1559R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Red, SL0295G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei

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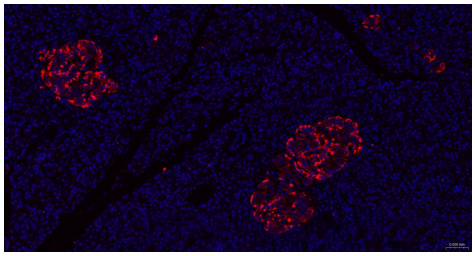


Figure 9. Paraformaldehyde-fixed, paraffin embedded Human Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with GLP-1R Polyclonal Antibody, Unconjugated (SL1559R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Red, SL0295G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei

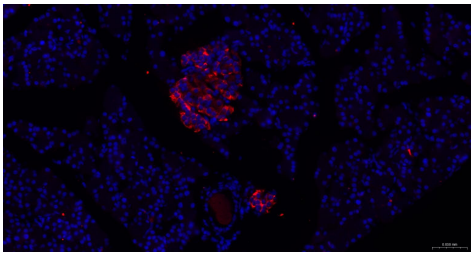


Figure 10. Paraformaldehyde-fixed, paraffin embedded Mouse Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with GLP-1R Polyclonal Antibody, Unconjugated (SL1559R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Red, SL0295G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei

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