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[Primary Antibody]

Rabbit Anti-Glucose 6 phosphatase 2 antibody

Catalog Number: SL22837R

FOR RESEARCH USE ONLY

[DATASHEET]

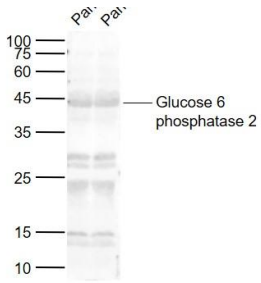
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Glucose 6 phosphatase 2
Immunogen:	KLH conjugated synthetic peptide derived from human Glucose 6 phosphatase 2: 191-290/355
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, Rat, (predicted: Human, Dog, Cow, Horse, Rabbit)
Predicted MW.:	41kDa
Subcellular Location:	The cell membrane
Background:	Glucose-6-phosphatase (G6Pase), is a multicomponent enzyme system that hydrolyzes glucose-6-phosphate in the final step of gluconeogenesis and gluconeolysis. G6Pase localizes to the endoplasmic reticulum, and while liver, kidney, and intestine are the only tissues that express the first identified isoform, G6Pase-alpha, a second form, designated G6Pase-∫, contributes to blood glucose homeostasis in a wider range of tissues. Islet-specific G-6-Pase catalytic subunit-related protein (IGRP), a homolog of the catalytic subunit of G6Pase, may play a role in the regulation of islet metabolism and in insulin secretion induced by metabolites. The exact catalytic acivity of IGRP is not defined. Identification of inhibitors of IGRP have potential therapeutic benefits for treatment of type 2 diabetes resulting from insulin secretion defects. Structurally, IGRP has been shown to be a glycoprotein held in the endoplasmic reticulum by nine transmembrane domains, which are then degraded in cells through the proteasome pathway

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	generating MHC class I presented peptides. **Function:** IGRP (islet specific glucose 6 phosphatase catalytic subunit related protein), also known as G6PC2, belongs to the glucose-6-phosphatase catalytic subunit family. These enzymes are part of a multicomponent integral membrane system that catalyses the hydrolysis of glucose-6-phosphate. This hydrolysis is the terminal step in gluconeogenic and glycogenolytic pathways, and allows the release of glucose into the bloodstream. IGRP is found in pancreatic islets and does not exhibit phosphohydrolase activity. However, it is a major target of cell-mediated autoimmunity in diabetes. **Subcellular Location:** Endoplasmic reticulum membrane; Multi-pass membrane protein. **Tissue Specificity:** Specifically expressed in pancreas and also detected to a lower extent in testis. Expressed by most islet cells in the pancreas (at protein level). **Post-translational modifications:** N-glycosylated; the non-glycosylated form is more unstable and is degraded through the proteasome. **Similarity:** Belongs to the glucose-6-phosphatase family. **SWISS:** Q9NQR9 **Gene ID:** 57818

[VALIDATION IMAGES]



Sample:
Lane 1: Pancreas (Mouse) Lysate at 40 ug
Lane 2: Pancreas (Rat) Lysate at 40 ug
Primary:
Anti-Glucose 6 phosphatase 2 (SL22837R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 42 kD
Observed band size: 44 kD

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