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Datasheet for ABIN753007
anti-G6PC antibody (HRP)

Overview

| | |
|--------------|------------------------------------------------------------------------------------|
| Quantity: | 100 µL |
| Target: | G6PC |
| Reactivity: | Human, Mouse, Rat, Dog, Cow, Pig |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This G6PC antibody is conjugated to HRP |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

Product Details

| | |
|-------------------|---------------------------------------------------------------------------------|
| Immunogen: | KLH conjugated synthetic peptide derived from human Glucose 6 phosphatase alpha |
| Isotype: | IgG |
| Cross-Reactivity: | Cow, Dog, Human, Mouse, Pig, Rat |
| Purification: | Purified by Protein A. |

Target Details

| | |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target: | G6PC |
| Alternative Name: | Glucose 6 phosphatase alpha (G6PC Products) |
| Background: | Synonyms: glucose-6-phosphatase, catalytic subunit, GSD1, AW107337, G-6-Pase, G6Pase, G6Pase-alpha, g6pc, G6PC_HUMAN, G6PT, Glucose-6-phosphatase alpha, Glucose-6-phosphatase, GSD1a, MGC163350, MGC93613, RP23-281C18.19. Background: Glucose-6-phosphatase (G6Pase), is a multicomponent enzyme system that |

Target Details

hydrolyzes glucose-6-phosphate (G6P) 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-i¹, a second form, designated G6Pase-i², contributes to blood glucose homeostasis in a wider range of tissues. G6Pase-i², also known as SCN4, UGRP or G6PC3 (glucose 6 phosphatase, catalytic, 3), is a 346 amino acid endoplasmic reticulum multi-pass membrane protein that is involved in carbohydrate biosynthesis and the gluconeogenesis pathway. Inhibited by vanadate, G6Pase-i² hydrolyzes GP6 to glucose in the endoplasmic reticulum. Due to its necessary involvement in normal glucose metabolism, G6Pase-i² may play an integral role in diabetes and glycogen storage diseases (GSDs).

Molecular Weight: 40kDa

Gene ID: 2538

Pathways: [Carbohydrate Homeostasis](#), [Cellular Glucan Metabolic Process](#)

Application Details

Application Notes: WB(1:100-500)
Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: Gentamicin sulfate

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months