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Datasheet for ABIN899047

anti-G6PC antibody (Alexa Fluor 488)

Overview

Quantity:	100 µL
Target:	G6PC
Reactivity:	Human, Mouse, Rat, Dog, Cow, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This G6PC antibody is conjugated to Alexa Fluor 488
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (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:	<p>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.</p> <p>Background: Glucose-6-phosphatase (G6Pase), is a multicomponent enzyme system that</p>

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: IF(IHC-P)(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: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

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

Expiry Date: 12 months