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Datasheet for ABIN1695422

anti-G6PC3 antibody (AA 201-300) (Alexa Fluor 488)

Overview

Quantity:	100 µL
Target:	G6PC3
Binding Specificity:	AA 201-300
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This G6PC3 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 G6PC3
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow, Sheep, Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	G6PC3
Alternative Name:	G6PC3 (G6PC3 Products)
Background:	Synonyms: G-6-Pase 3, G6Pase 3, G6Pase-beta, Glucose 6 phosphatase, catalytic, 3, Glucose-6-

Target Details

phosphatase 3, Glucose-6-phosphatase beta, SCN4, Ubiquitous glucose-6-phosphatase catalytic subunit-related protein, UGRP,

Background: Glucose-6-phosphatase (G6Pase), is a multicomponent enzyme system that 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-Alpha, a second form, designated G6Pase-Beta, contributes to blood glucose homeostasis in a wider range of tissues. G6Pase-Beta, 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-Beta hydrolyzes GP6 to glucose in the endoplasmic reticulum. Due to its necessary involvement in normal glucose metabolism, G6Pase-Beta may play an integral role in diabetes and glycogen storage diseases (GSDs).

Gene ID:	92579
UniProt:	Q9BUM1

Application Details

Application Notes:	IF(IHC-P) 1:50-200
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:	ProClin
Precaution of Use:	This product contains ProClin: 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