ARG58925
anti-GPD1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GPD1
Tested Reactivity	Hu
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GPD1
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 28-57 of Human GPD1.
Conjugation	Un-conjugated
Alternate Names	GPD-C; HTGTI; GPDH-C; Glycerol-3-phosphate dehydrogenase [NAD(+)], cytoplasmic; GPD-C; GPDH-C; EC 1.1.1.8

Application Instructions

Application table

Application	Dilution
FACS	1:10 - 1:50
IHC-P	1:50 - 1:100
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Human liver

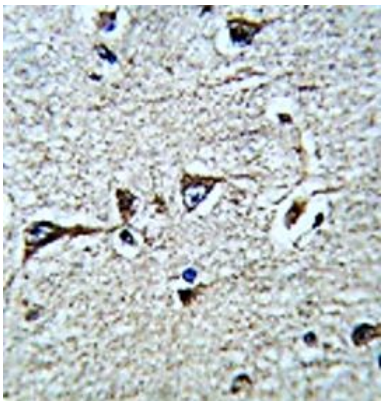
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

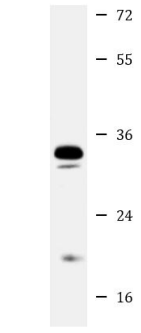
Gene Symbol	GPD1
Gene Full Name	glycerol-3-phosphate dehydrogenase 1 (soluble)
Background	This gene encodes a member of the NAD-dependent glycerol-3-phosphate dehydrogenase family. The encoded protein plays a critical role in carbohydrate and lipid metabolism by catalyzing the reversible conversion of dihydroxyacetone phosphate (DHAP) and reduced nicotine adenine dinucleotide (NADH) to glycerol-3-phosphate (G3P) and NAD+. The encoded cytosolic protein and mitochondrial glycerol-3-phosphate dehydrogenase also form a glycerol phosphate shuttle that facilitates the transfer of reducing equivalents from the cytosol to mitochondria. Mutations in this gene are a cause of transient infantile hypertriglyceridemia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]
Calculated Mw	38 kDa
Cellular Localization	Cytoplasm. [UniProt]

Images



ARG58925 anti-GPD1 antibody IHC-P image

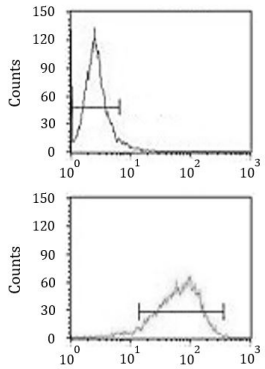
Immunohistochemistry: Formalin-fixed and paraffin-embedded Human brain tissue stained with ARG58925 anti-GPD1 antibody.



Human liver

ARG58925 anti-GPD1 antibody WB image

Western blot: 35 µg of Human liver lysate stained with ARG58925 anti-GPD1 antibody at 1:1000 dilution.



ARG58925 anti-GPD1 antibody FACS image

Flow Cytometry: HepG2 cells stained with ARG58925 anti-GPD1 antibody (bottom histogram) or without primary antibody as control (top histogram), followed by incubation with FITC labelled secondary antibody.