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Datasheet for ABIN2782534
anti-PDSS1 antibody (Middle Region)

1 Image

Overview

Quantity:	100 µL
Target:	PDSS1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rabbit, Cow, Dog, Guinea Pig, Rat, Horse, Pig, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDSS1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human PDSS1
Sequence:	GEFLQLGSKE NENERFAHYL EKTFKKTASL IANSCKAVSV LGCPDPVVHE
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 86%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against PDSS1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

Target Details

Target:	PDSS1
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Target Details

Alternative Name: PDSS1 ([PDSS1 Products](#))

Background: PDSS1 is an enzyme that elongates the prenyl side-chain of coenzyme Q, or ubiquinone, one of the key elements in the respiratory chain. PDSS1 catalyzes the formation of all trans-polyprenyl pyrophosphates from isopentyl diphosphate in the assembly of polyisoprenoid side chains, the first step in coenzyme Q biosynthesis. The protein may be peripherally associated with the inner mitochondrial membrane, though no transit peptide has been definitively identified to date. Defects in PDSS1 gene are a cause of coenzyme Q10 deficiency. The protein encoded by this gene is an enzyme that elongates the prenyl side-chain of coenzyme Q, or ubiquinone, one of the key elements in the respiratory chain. The gene product catalyzes the formation of all trans-polyprenyl pyrophosphates from isopentyl diphosphate in the assembly of polyisoprenoid side chains, the first step in coenzyme Q biosynthesis. The protein may be peripherally associated with the inner mitochondrial membrane, though no transit peptide has been definitively identified to date. Defects in this gene are a cause of coenzyme Q10 deficiency.

Alias Symbols: COQ1, MGC70953, RP13-16H11.3, TPRT, TPT, hDPS1, DPS, SPS, TPT 1

Protein Interaction Partner: UBC,

Protein Size: 415

Molecular Weight: 46 kDa

Gene ID: 23590

NCBI Accession: [NM_014317](#), [NP_055132](#)

UniProt: [Q5T2R2](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 415 AA

Restrictions: For Research Use only

Handling

Format: Liquid

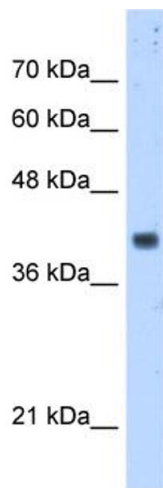
Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-PDSS1 Antibody Titration: 5.0ug/ml Positive Control: HepG2 cell lysate PDSS1 is supported by BioGPS gene expression data to be expressed in HepG2