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Rabbit Anti-PDSS2 antibody

SL0376R

Product Name	PDSS2
Chinese Name	抑癌蛋白 DLP1 抗体
Alias	All-trans-decaprenyl-diphosphate synthase subunit 2; bA59I9.3; C6orf210; Candidate tumor suppressor protein; chromosome 6 open reading frame 210; Decaprenyl pyrophosphate synthase subunit 2; decaprenyl pyrophosphate synthetase subunit 2; Decaprenyl-diphosphate synthase subunit 2; DLP1; DLP1_HUMAN; hDLP1; Pdss2; prenyl (decaprenyl) diphosphate synthase, subunit 2; subunit 2 of decaprenyl diphosphate synthase.
Research Area	Tumour immunology Signal transduction Cell type markers Mitochondrion
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, (predicted: Mouse, Rat,)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	44kDa
Cellular localization	cytoplasmic Mitochondrion
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human PDSS2: 21-100/399
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed PubMed

Product Detail

The protein encoded by this gene is an enzyme that synthesizes 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. Defects in this gene are a cause of coenzyme Q10 deficiency.

Function:
Supplies decaprenyl diphosphate, the precursor for the side chain of the isoprenoid quinones ubiquinone-10.

Subunit:
Heterotetramer of 2 DPS1/TPRT and 2 DLP1 subunits.

Subcellular Location:
Mitochondrion (Potential).

DISEASE:
Defects in PDSS2 are the cause of coenzyme Q10 deficiency, primary, type 3 (COQ10D3) [MIM:614652]. A fatal encephalomyopathic form of coenzyme Q10 deficiency with nephritic syndrome. Coenzyme Q10 deficiency is an autosomal recessive disorder with variable manifestations consistent with 5 major phenotypes. The phenotypes include an encephalomyopathic form with seizures and ataxia; a multisystem infantile form with encephalopathy, cardiomyopathy and renal failure; a predominantly cerebellar form with ataxia and cerebellar atrophy; Leigh syndrome with growth retardation; and an isolated myopathic form.

Similarity:
Belongs to the FPP/GGPP synthase family.

SWISS:
Q86YH6

Gene ID:
57107

Database links:

Entrez Gene: 57107 Human

Entrez Gene: 71365 Mouse

Entrez Gene: 365592 Rat

Omim: 610564 Human

SwissProt: Q86YH6 Human

SwissProt: Q33DR3 Mouse

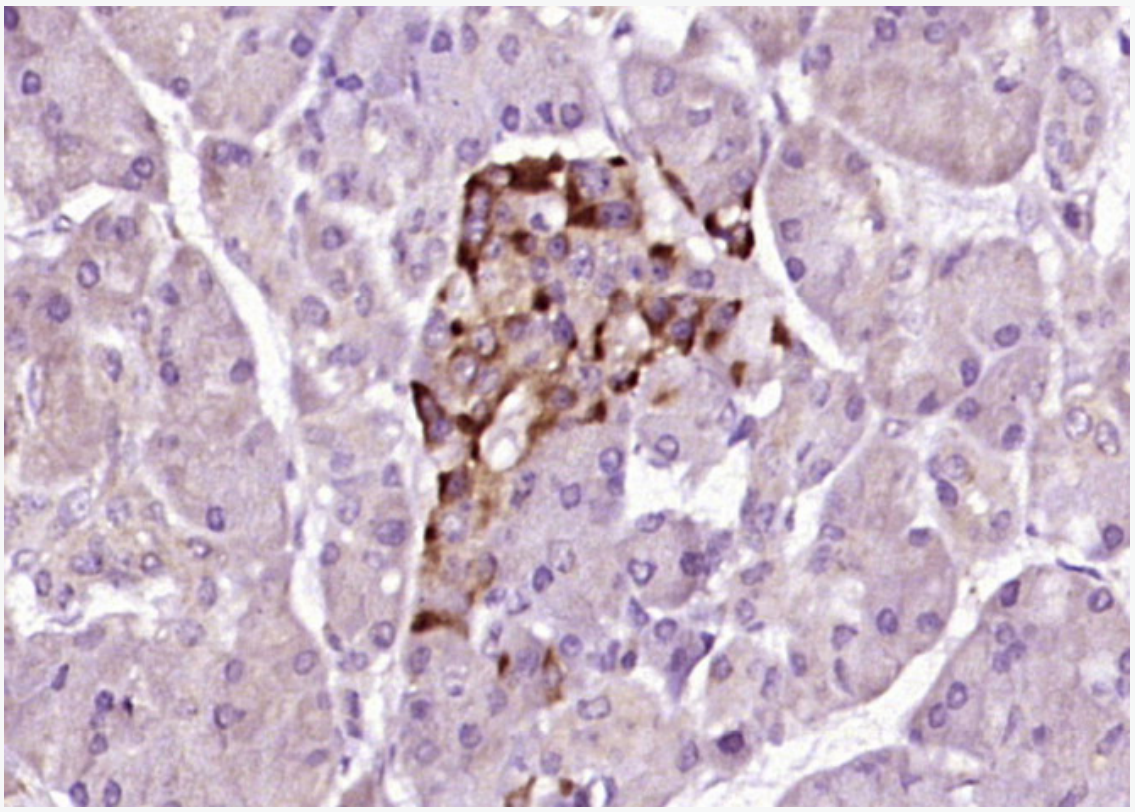
SwissProt: Q5U2R1 Rat

Unigene: 486095 Human

Unigene: 363225 Mouse

Unigene: 20063 Rat

Product Picture



Paraformaldehyde-fixed, paraffin embedded (human Pancreatic cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat

serum) at 37°C for 30min; Antibody incubation with (PDSS2) Polyclonal Antibody, Unconjugated (SL0376R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.