Best Tools for immunology Research

SDHA Polyclonal Antibody

Catalog No :	YT4226
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC
Target :	SDHA
Fields :	>>Citrate cycle (TCA cycle);>>Oxidative phosphorylation;>>Metabolic pathways;>>Carbon metabolism;>>Thermogenesis;>>Non-alcoholic fatty liver disease;>>Alzheimer disease;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Chemical carcinogenesis - reactive oxygen species;>>Diabetic cardiomyopathy
Gene Name :	SDHA
Protein Name :	Succinate dehydrogenase [ubiquinone] flavoprotein subunit mitochondrial
Human Gene Id :	6389
Human Swiss Prot No :	P31040
Mouse Gene Id :	66945
Mouse Swiss Prot No :	Q8K2B3
Rat Gene Id :	157074
Rat Swiss Prot No :	Q920L2
Immunogen :	The antiserum was produced against synthesized peptide derived from human SDHA. AA range:551-600
Specificity :	SDHA Polyclonal Antibody detects endogenous levels of SDHA protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

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Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	70kD
Cell Pathway :	Citrate cycle (TCA cycle);Oxidative phosphorylation;Alzheimer's disease;Parkinson's disease;Huntington's disease;
Background :	This gene encodes a major catalytic subunit of succinate-ubiquinone oxidoreductase, a complex of the mitochondrial respiratory chain. The complex is composed of four nuclear-encoded subunits and is localized in the mitochondrial inner membrane. Mutations in this gene have been associated with a form of mitochondrial respiratory chain deficiency known as Leigh Syndrome. A pseudogene has been identified on chromosome 3q29. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2014],
Function :	catalytic activity:Succinate + ubiquinone = fumarate + ubiquinol.,cofactor:FAD.,disease:Defects in SDHA are a cause of complex II mitochondrial respiratory chain deficiency [MIM:252011]; also known as succinate CoQ reductase deficiency. Defects of oxidative phosphorylation give rise to heterogeneous clinical symptoms ranging from isolated organ dysfunction to multisystem disorder. A deficiency of complex II represents a rare cause of mitochondrial encephalomyopathy, leukodystrophy, late-onset optic atrophy and ataxia, myopathy with exercise intolerance, and isolated cardiomyopathy.,disease:Defects in SDHA are a cause of Leigh syndrome (LS) [MIM:256000]. LS is a severe disorder characterized by bilaterally symmetrical necrotic lesions in subcortical brain regions.,function:Flavoprotein (FP) subunit of succinate dehydrogenase (SDH) that is involved in complex II of the mitochondrial electr
Subcellular Location :	Mitochondrion inner membrane ; Peripheral membrane protein ; Matrix side .
Expression :	Adipocyte,Brain,Colon,Heart,Liver,Placenta,

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