Immunoway
Best Tools for immunology Research

SDHB Polyclonal Antibody

Catalog No :	YT5450
Reactivity :	Human;Mouse;Rat;Fish
Applications :	WB;IHC;IF;ELISA
Target :	SDHB
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 :	SDHB
Protein Name :	Succinate dehydrogenase [ubiquinone] iron-sulfur subunit mitochondrial
Human Gene Id :	6390
Human Swiss Prot No :	P21912
Mouse Gene Id :	67680
Mouse Swiss Prot No :	Q9CQA3
Rat Gene Id :	298596
Rat Swiss Prot No :	P21913
Immunogen :	The antiserum was produced against synthesized peptide derived from the Internal region of human SDHB. AA range:131-180
Specificity :	SDHB Polyclonal Antibody detects endogenous levels of SDHB 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 - 1:2000. IHC: 1:100-1:300. ELISA: 1:20000.. IF 1:50-200
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 :	31kD
Cell Pathway :	Citrate cycle (TCA cycle);Oxidative phosphorylation;Alzheimer's disease;Parkinson's disease;Huntington's disease;
Background :	Complex II of the respiratory chain, which is specifically involved in the oxidation of succinate, carries electrons from FADH to CoQ. The complex is composed of four nuclear-encoded subunits and is localized in the mitochondrial inner membrane. The iron-sulfur subunit is highly conserved and contains three cysteine-rich clusters which may comprise the iron-sulfur centers of the enzyme. Sporadic and familial mutations in this gene result in paragangliomas and pheochromocytoma, and support a link between mitochondrial dysfunction and tumorigenesis. [provided by RefSeq, Jul 2008],
Function :	catalytic activity:Succinate + ubiquinone = fumarate + ubiquinol.,cofactor:Binds 1 2Fe-2S cluster.,cofactor:Binds 1 3Fe-4S cluster.,cofactor:Binds 1 4Fe-4S cluster.,disease:Defects in SDHB are a cause of Cowden-like syndrome [MIM:612359]. Cowden-like syndrome is a cancer predisposition syndrome associated with elevated risk for tumors of the breast, thyroid, kidney and uterus.,disease:Defects in SDHB are a cause of paraganglioma and gastric stromal sarcoma [MIM:606864]; also called Carney-Stratakis syndrome. Gastrointestinal stromal tumors may be sporadic or inherited in an autosomal dominant manner, alone or as a component of a syndrome associated with other tumors, such as in the context of neurofibromatosis type 1 (NF1). Patients have both gastrointestinal stromal tumors and paragangliomas. Susceptibility to the tumors was inherited in an apparently autosomal dominant manner, with inc
Subcellular Location :	Mitochondrion inner membrane; Peripheral membrane protein; Matrix side.
Expression :	Brain,Fibroblast,Liver,

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