

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

Q9CQA3

Mouse Gene ld: 67680

Mouse Swiss Prot

No:

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.



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],

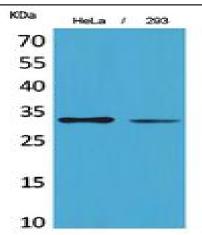
Function: catalytic activity:Succinate + ubiquinone = fumarate + ubiquinol.,cofactor:Binds

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

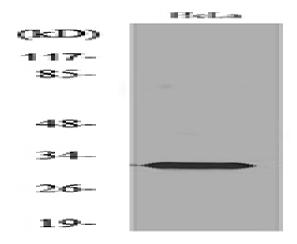
Subcellular Location : Mitochondrion inner membrane; Peripheral membrane protein; Matrix side.

Expression : Brain, Fibroblast, Liver,

Products Images



Western Blot analysis of HeLa, 293 cells using SDHB Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western blot analysis of lysate from HeLa cells, using SDHB Antibody.