产品名称：SDHA Rabbit Polyclonal Antibody
产品货号：APRab17678

产品概述（Summary）

产品名称（Production Name）	SDHA Rabbit Polyclonal Antibody
描述（Description）	Rabbit Polyclonal Antibody
宿主（Host）	Rabbit
应用（Application）	WB,
种属反应性（Reactivity）	Human,Mouse,Rat

产品性能（Performance）

偶联物（Conjugation）	Unconjugated
修饰（Modification）	Unmodified
同种型（Isotype）	IgG
克隆（Clonality）	Polyclonal
形式（Form）	Liquid
存放说明（Storage）	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液（Buffer）	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
纯化方式（Purification）	Affinity purification

免疫原信息（Immunogen）

基因名（Gene Name）	SDHA
别名（Alternative Names）	SDHA; SDH2; SDHF; Succinate dehydrogenase [ubiquinone] flavoprotein subunit; mitochondrial; Flavoprotein subunit of complex II; Fp
基因 ID（Gene ID）	6389.0
蛋白 ID（SwissProt ID）	P31040.The antiserum was produced against synthesized peptide derived from human SDHA. AA range:551-600

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:500-2000
蛋白分子量（Molecular Weight）	70kD

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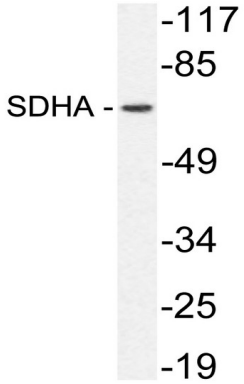
研究背景（Background）

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],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 electron transport chain and is responsible for transferring electrons from succinate to ubiquinone (coenzyme Q).,miscellaneous:The complex, present in mitochondria, can be degraded to form EC 1.3.99.1, which no longer reacts with ubiquinone.,pathway:Carbohydrate metabolism; tricarboxylic acid cycle.,sequence caution:Differs extensively from that shown.,similarity:Belongs to the FAD-dependent oxidoreductase 2 family. FRD/SDH subfamily.,subunit:Component of complex II composed of four subunits: the flavoprotein (FP) sdha, iron-sulfur protein (IP) sdhb, and a cytochrome b560 composed of sdhc and sdhd.,

研究领域（Research Area）

Citrate cycle (TCA cycle);Oxidative phosphorylation;Alzheimer's disease;Parkinson's disease;Huntington's disease;

图片（Image Data）



Western blot analysis of lysate from HeLa cells, using SDHA antibody.

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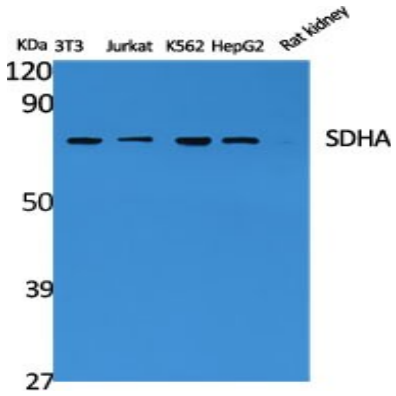
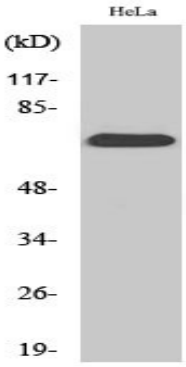


Western Blot analysis of various cells using SDHA Polyclonal Antibody diluted at 1：2000



Western Blot analysis of HepG2 cells using SDHA Polyclonal Antibody diluted at 1：2000

注意事项（Note）

For research use only .