

Rabbit Anti-SDHB/APC Conjugated antibody

SL6650R-APC

Product Name	Anti-SDHB/APC
Chinese Name	APC 标记的铬细胞瘤患者抑癌基因 SDHB 抗体
Alias	succinate dehydrogenase complex, subunit B; mitochondrial; DHSB_HUMAN; Ip; Iron sulfur subunit; Iron sulfur subunit of complex II; Iron-sulfur subunit of complex II; PGL 4; PGL4; SDH 1; SDH; SDH1; SDH2; SdhB; SDHIP; Succinate dehydrogenase [ubiquinone] iron sulfur protein mitochondrial; Succinate dehydrogenase [ubiquinone] iron-sulfur subunit; Succinate Dehydrogenase 1 Iron Sulfur Subunit; Succinate dehydrogenase complex subunit B iron sulfur; Succinate Dehydrogenase Complex Subunit B Iron Sulfur Protein; Succinate dehydrogenase iron sulfur protein.
Research Area	Tumour Cell biology Signal transduction
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit)
Applications	Flow-Cyt=1ug/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	32kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human SDHB
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	background: Iron-sulfur protein (IP) 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).

Function:

Iron-sulfur protein (IP) 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).

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.

Subcellular Location:

Mitochondrion inner membrane; Peripheral membrane protein; Matrix side.

DISEASE:

Defects in SDHB are a cause of susceptibility to pheochromocytoma (PCC) [MIM:171300]. A catecholamine-producing tumor of chromaffin tissue of the adrenal medulla or sympathetic paraganglia. The cardinal symptom, reflecting the increased secretion of epinephrine and norepinephrine, is hypertension, which may be persistent or intermittent.

Defects in SDHB are the cause of paragangliomas type 4 (PGL4) [MIM:115310]. A neural crest tumor usually derived from the chromoreceptor tissue of a paraganglion. Paragangliomas are most commonly located in the head and neck region, specifically at the carotid bifurcation, the jugular foramen, the vagal nerve, and in the middle ear.

Defects in SDHB are a cause of paraganglioma and gastric stromal sarcoma (PGSS) [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 incomplete penetrance.

Similarity:

Belongs to the succinate dehydrogenase/fumarate reductase iron-sulfur protein family.

Contains 1 2Fe-2S ferredoxin-type domain.

Contains 1 4Fe-4S ferredoxin-type domain.



Database links:

[Entrez Gene: 6390](#) Human

[Entrez Gene: 67680](#) Mouse

[Entrez Gene: 298596](#) Rat

[Omid: 185470](#) Human

[SwissProt: P21912](#) Human

[SwissProt: Q9CQA3](#) Mouse

[SwissProt: P21913](#) Rat

[Unigene: 465924](#) Human

[Unigene: 246965](#) Mouse

[Unigene: 3902](#) Rat

Important Note:

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