



Rabbit Anti-SDHB antibody

SL6650R

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| Product Name: | SDHB |
| Chinese Name: | 铬细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. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit, |
| Applications: | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1ug/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 32kDa |
| Cellular localization: | cytoplasmicThe cell membrane |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human SDHB:201-280/280 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| PubMed: | PubMed |
| Product Detail: | 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.

SWISS:

P21912

Gene ID:

6390

Database links:

[Entrez Gene: 6390](#)Human

[Entrez Gene: 67680](#)Mouse

[Entrez Gene: 298596](#)Rat

[Omim: 185470](#)Human

[SwissProt: P21912](#)Human

[SwissProt: Q9CQA3](#)Mouse

[SwissProt: P21913](#)Rat

[Unigene: 465924](#)Human

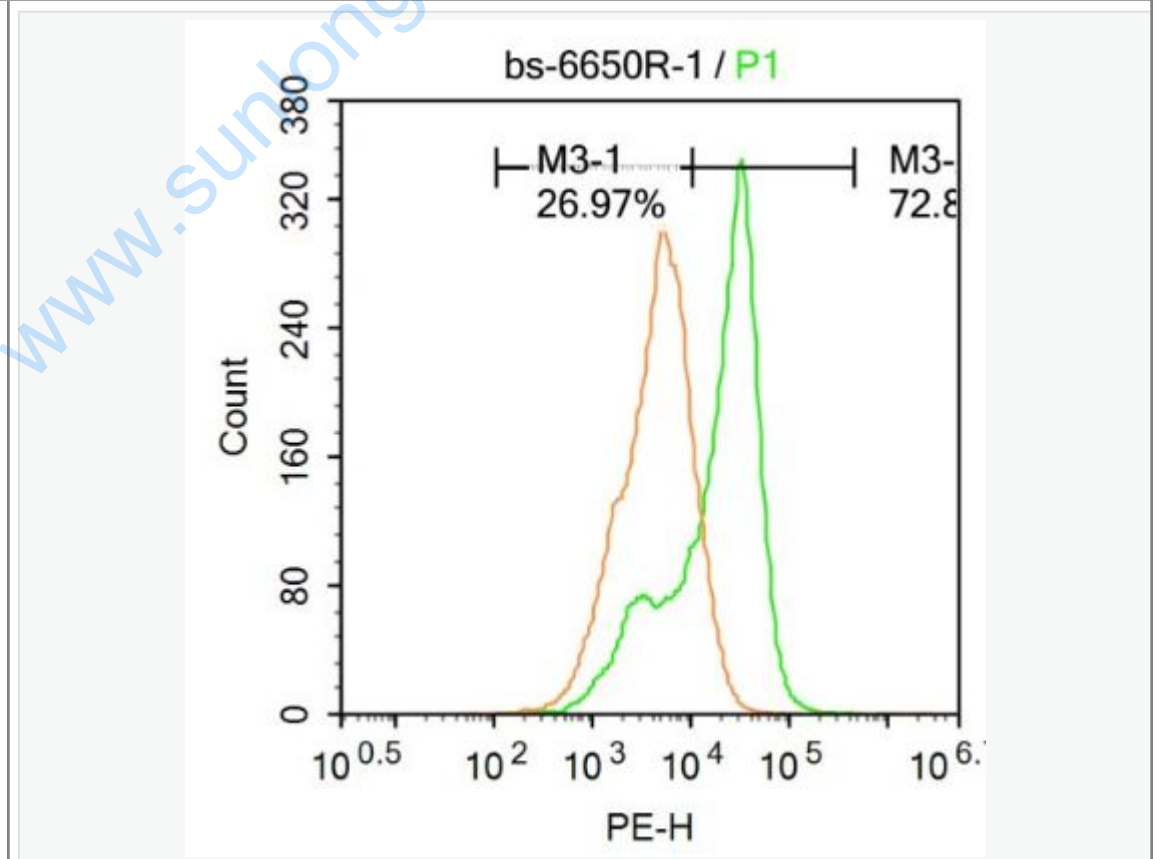
[Unigene: 246965](#)Mouse

[Unigene: 3902](#)Rat

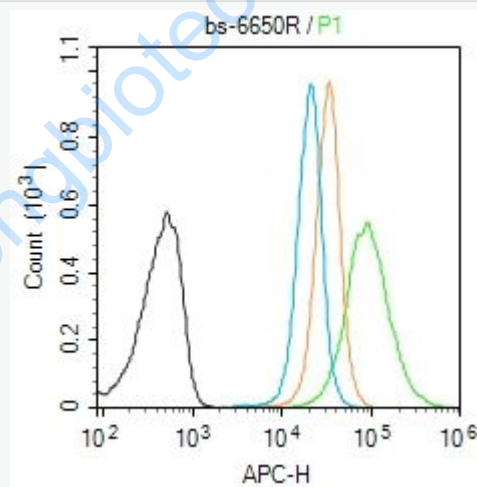
Important Note:

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

Picture:



Molt-4 cells were fixed with 4% PFA for 10min at room temperature, permeabilized with 20% PBST for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with SDHB Antibody(SL6650R)at 1:100 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2%BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).



Blank control (Black line): Molt4 (Black).

Primary Antibody (green line): Rabbit Anti-SDHB antibody (SL6650R)

Dilution: 3 μ g / 10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647

Dilution: 3 μ g /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.