

RK05707

Leader in Biomolecular Solutions for Life Science



# [One Step] SDHB Antibody Kit

Catalog No.: RK05707

## Basic Information

### Applications

### Cross-Reactivity

Human, Mouse, Rat

### Observed MW

32kDa

### Calculated MW

32kDa

### Category

Antibody kit

## Background

This tumor suppressor gene encodes the iron-sulfur protein subunit of the succinate dehydrogenase (SDH) enzyme complex which plays a critical role in mitochondria. The SDH enzyme complex is composed of four nuclear-encoded subunits. This enzyme complex converts succinate to fumarate which releases electrons as part of the citric acid cycle, and the enzyme complex additionally provides an attachment site for released electrons to be transferred to the oxidative phosphorylation pathway. The SDH enzyme complex plays a role in oxygen-related gene regulation through its conversion of succinate, which is an oxygen sensor that stabilizes the hypoxia-inducible factor 1 (HIF1) transcription factor. Sporadic and familial mutations in this gene result in paragangliomas, pheochromocytoma, and gastrointestinal stromal tumors, supporting a link between mitochondrial dysfunction and tumorigenesis. Mutations in this gene are also implicated in nuclear type 4 mitochondrial complex II deficiency.

## Product Information

### Source

Rabbit

### Purification

### Storage

Avoid repeated freeze-thaw cycles.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Component & Recommended Dilutions

Catalog No.	Product Name	Dilutions
RK05707-1	SDHB Rabbit pAb	32kDa
RK05707-2	HRP-conjugated Goat anti-Rabbit IgG (H+L)	32kDa

## Immunogen Information

### Gene ID

6390

### Swiss Prot

P21912

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 29-280 of human SDHB (NP\_002991.2).

### Synonyms

IP; SDH; CWS2; PGL4; SDH1; SDH2; SDHIP; MC2DN4; SDHB