

**Anti-SDHC Antibody**  
**Catalog # ABO11147****Specification**

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**Anti-SDHC Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">Q99643</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Succinate dehydrogenase cytochrome b560 subunit, mitochondrial(SDHC) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-SDHC Antibody - Additional Information**

**Gene ID** 6391

**Other Names**

Succinate dehydrogenase cytochrome b560 subunit, mitochondrial, Integral membrane protein CII-3, QPs-1, QPs1, Succinate dehydrogenase complex subunit C, Succinate-ubiquinone oxidoreductase cytochrome B large subunit, CYBL, SDHC, CYB560, SDH3

**Calculated MW**

18610 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat<br> <br>Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Subcellular Localization**

Mitochondrion inner membrane; Multi-pass membrane protein.

**Protein Name**

Succinate dehydrogenase cytochrome b560 subunit, mitochondrial

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human SDHC(35-50aa KEEMERFWNKNIQSNR), different from the related mouse and rat sequences by three amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the cytochrome b560 family.

**Anti-SDHC Antibody - Protein Information**

**Name** SDHC

**Synonyms** CYB560, SDH3

**Function**

Membrane-anchoring 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) (PubMed: [9533030](http://www.uniprot.org/citations/9533030)). SDH also oxidizes malate to the non-canonical enol form of oxaloacetate, enol-oxaloacetate (By similarity). Enol-oxaloacetate, which is a potent inhibitor of the succinate dehydrogenase activity, is further isomerized into keto- oxaloacetate (By similarity).

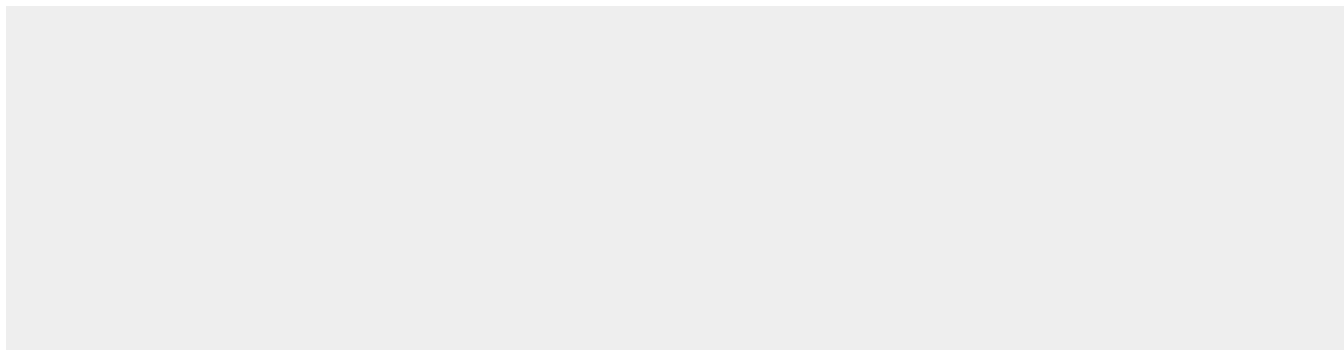
**Cellular Location**

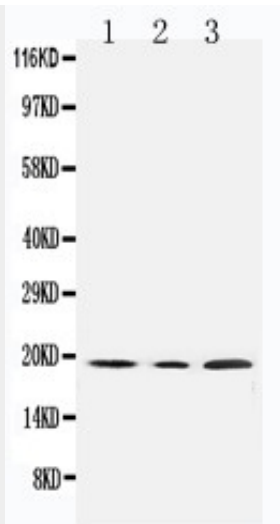
Mitochondrion inner membrane; Multi-pass membrane protein

**Anti-SDHC Antibody - Protocols**

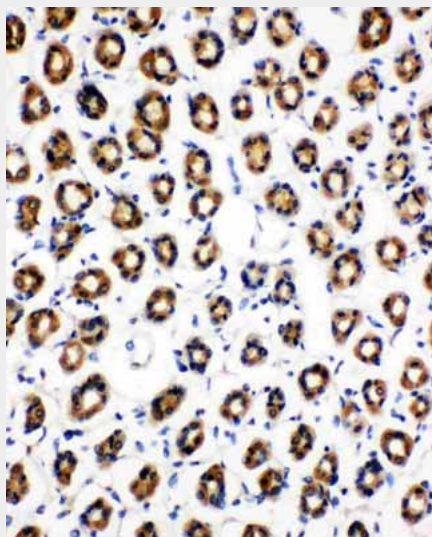
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

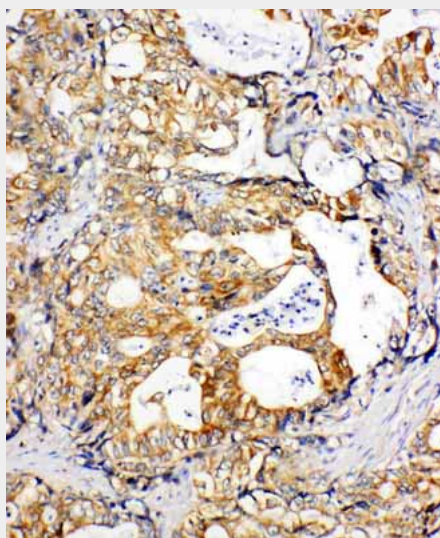
**Anti-SDHC Antibody - Images**



Anti-SDHC antibody, ABO11147, Western blotting All lanes: Anti SDHC (ABO11147) at 0.5ug/ml  
Lane 1: Rat Liver Tissue Lysate at 50ug  
Lane 2: Mouse Liver Tissue Lysate at 50ug  
Lane 3: HELA Whole Cell Lysate at 40ug  
Predicted bind size: 19KD  
Observed bind size: 19KD



Anti-SDHC antibody, ABO11147, IHC(P)  
IHC(P): Rat Gastric Tissue



Anti-SDHC antibody, ABO11147, IHC(P)IHC(P): Human Gastric Cancer Tissue

### **Anti-SDHC Antibody - Background**

SDHC(succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa) also known as SDH3, SUCCINATE DEHYDROGENASE CYTOCHROME b. The SDHC gene contains 6 exons. Oostveen et al.(1995) found that in fact it was protein from the bovine SDH3 gene(encoding 1 of the 2 integral membrane proteins) that complemented the hamster mutation. The authors localized the human SDH3 gene to the short arm of chromosome one, within 1 to 2 Mb from the centromere. Additionally, the authors stated that Southern analyses of human genomic DNA suggested that there are multiple SDH3 genes or pseudogenes. Elbehti-Green et al.(1998) confirmed the assignment of the SDHC gene to 1q21 by FISH. Baysal et al.(2004) described a family with PGL3 in which an 8,372-bp deletion in the SDHC gene was transmitted both maternally and paternally, without evidence of genomic imprinting.