

Anti-SDHC Antibody

Catalog # ABO11147

Product Information

Application	WB, IHC-P
Primary Accession	Q99643
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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Rat, Mouse
Subcellular Localization	Mitochondrion inner membrane; Multi-pass membrane protein.
Source	Eukaryota
Protein Name	Succinate dehydrogenase cytochrome b560 subunit, mitochondrial
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human SDHC(35-50aa KEEMERFWNKNIGSNR), 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.

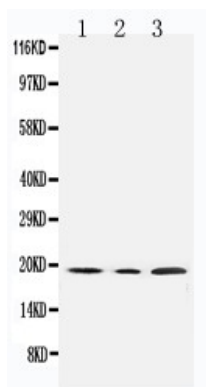
Protein Information

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). 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

Background

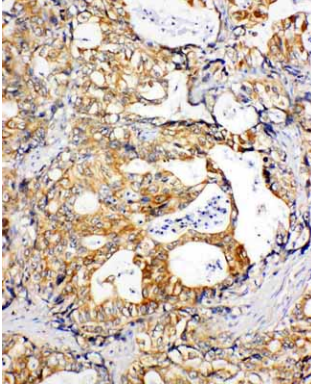
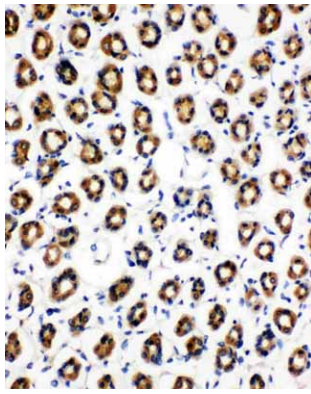
SDHC(succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa) also known as SDH3, SUCCINATE DEHYDROGENASE CYTOCHROME b. The *SDHC* gene contains 6 exons. Oostveen et al.(1995) found that in fact it was protein from the bovine SDH3 gene(encoding 1 of the 2 integral membrane proteins) 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.

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 Gaster Tissue



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.