

Anti-SDHA Antibody

Catalog # ABO11027

Product Information

Application	WB
Primary Accession	P31040
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Succinate dehydrogenase[ubiquinone] flavoprotein subunit, mitochondrial(SDHA) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	6389
Other Names	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial, 1.3.5.1, Flavoprotein subunit of complex II, Fp, SDHA, SDH2, SDHF
Calculated MW	72692
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse
Subcellular Localization	Mitochondrion inner membrane; Peripheral membrane protein; Matrix side.
Source	Eukaryota
Protein Name	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human SDHA(113-128aa NMEEDNWRWHFYDTVK), identical to the related rat and mouse sequences.
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 FAD-dependent oxidoreductase 2 family. FRD/SDH subfamily.

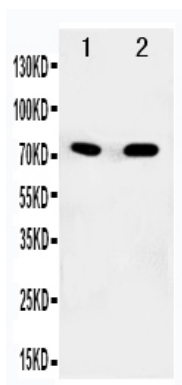
Protein Information

Name	SDHA
Synonyms	SDH2, SDHF
Function	Flavoprotein (FP) 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: 10746566 , PubMed: 24781757). 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). Can act as a tumor suppressor (PubMed: 20484225).
Cellular Location	Mitochondrion inner membrane; Peripheral membrane protein; Matrix side

Background

SDHA(Succinate dehydrogenase complex, subunit a, flavoprotein), also called SDH1, HOMOLOG OF, is a protein that in humans is encoded by the SDHA gene. The SDHA gene is mapped on 5p15.33. The SDHA gene is highly polymorphic. The gene that codes for the SDHA protein is nuclear, even though the protein is located in the inner membrane of the mitochondria. Heterozygous carriers of an SDHA mutation do not develop paragangliomas as has been seen for mutations in the other subunits. In vitro functional expression studies in the yeast homolog showed that the mutation resulted in a loss of SDH activity and rendered the mutant SDHA protein more susceptible to proteolysis. The findings indicated that SDHA, like other SDH subunits, can act as a tumor suppressor gene.

Images



Anti-SDHA antibody, ABO11027, Western blotting
Lane 1: Rat Heart Tissue Lysate
Lane 2: COLO320 Cell Lysate

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