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SDHA Rabbit mAb

Catalog # AP76062

Product Information

Application	WB, IHC-P, IHC-F, FC, IP
Primary Accession	P31040
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	72692

Additional Information

Gene ID	6389
Other Names	SDHA
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A IHC-F~~N/A FC~~1:20 IP~~1:10-1:50
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

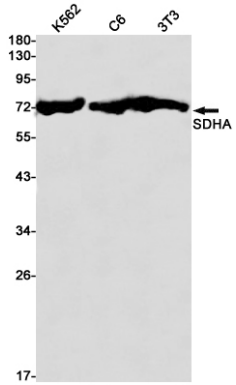
Protein Information

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

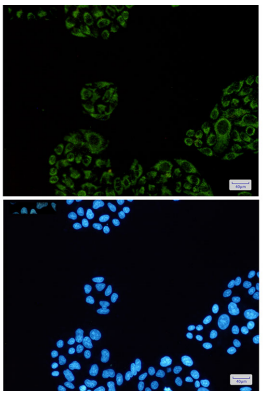
Background

This gene encodes a major catalytic subunit of succinate-ubiquinone oxidoreductase, a complex of the mitochondrial respiratory chain. The complex is composed of four nuclear-encoded subunits and is localized in the mitochondrial inner membrane. Mutations in this gene have been associated with a form of mitochondrial respiratory chain deficiency known as Leigh Syndrome. A pseudogene has been identified on chromosome 3q29. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

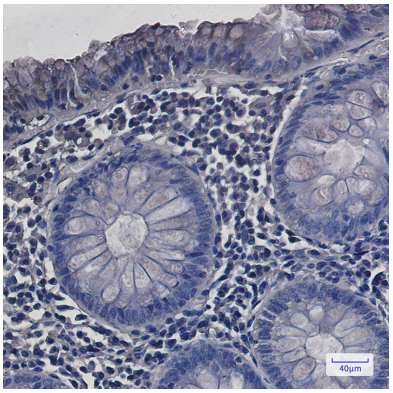
Images



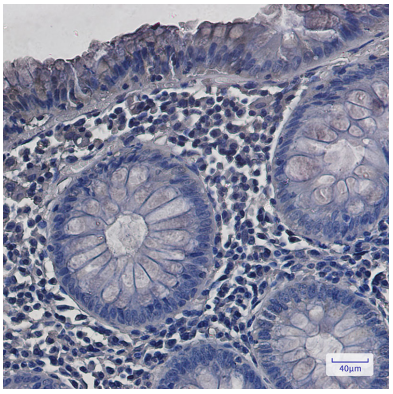
Western blot analysis of SDHA in K562, C6, 3T3 lysates using SDHA antibody.

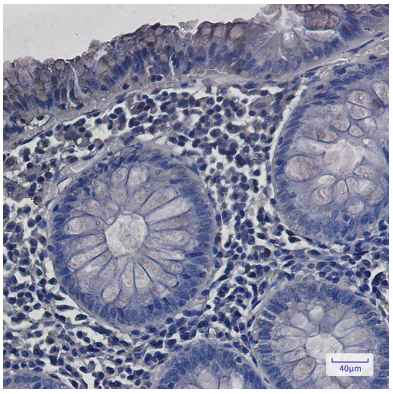


Immunocytochemistry analysis of SDHA(green) in Hela using SDHA antibody,and DAPI(blue)



Immunohistochemistry analysis of paraffin-embedded Human colon cancer using SDHA antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.





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