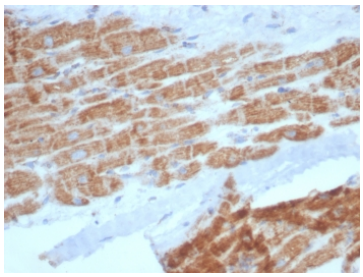
SDHA Antibody [clone SDHA/7495] (V5084)

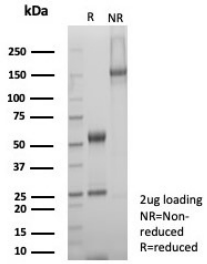
Catalog No.	Formulation	Size
V5084-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5084-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5084SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2, kappa
Clone Name	SDHA/7495
Purity	Protein A/G affinity
UniProt	P31040
Localization	Cytoplasm (Mitochondria)
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This SDHA antibody is available for research use only.



IHC staining of FFPE human heart tissue with SDHA antibody (clone SDHA/7495). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free SDHA antibody (clone SDHA/7495) as confirmation of integrity and purity.

Description

In aerobic respiration reactions, succinate dehydrogenase (SDH) catalyzes the oxidation of succinate and ubiquinone to fumarate and ubiquinol. Four subunits comprise the SDH protein complex: a flavochrome subunit (SDHA), an iron-sulfur protein (SDHB) and two membrane-bound subunits (SDHC and SDHD) anchored to the inner mitochondrial membrane. Mutations to these subunits cause mitochondrial dysfunction, corresponding to several distinct disorders. Mutations in the membrane bound components may cause hereditary paraganglioma, while SDHA mutations are associated with juvenile encephalopathy as well as Leigh syndrome, a severe neurological disorder. Inactivating mutations in SDHB correlate with inherited, but not necessarily sporadic, cases of pheochromocytoma.

Application Notes

Optimal dilution of the SDHA antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 450-650) from the human protein was used as the immunogen for the SDHA antibody.

Storage

Aliquot the SDHA antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.