

Product datasheet for **AP23395PU-N**

SDHA (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1 µg/ml. Immunohistochemistry on Paraffin Sections: 2 µg/ml. Antigen Retrieval by Heat.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminal of Human SDHA
Specificity:	This antibody detects Complex II subunit 70 kDa Fp (C-term). No cross reactivity with other proteins.
Formulation:	50% Glycerol, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ . State: Aff - Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 1.2% Sodium Acetate or Neutral PBS.
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	succinate dehydrogenase complex flavoprotein subunit A
Database Link:	Entrez Gene 66945 Mouse Entrez Gene 157074 Rat Entrez Gene 6389 Human P31040



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Background:

Complex II of the mitochondrial respiratory chain, also known as succinate dehydrogenase or succinate:ubiquinone oxidoreductase, consists of 4 nuclear-encoded polypeptides, these are the flavoprotein subunit (SDHA), the iron sulfur protein subunit (SDHB), and the integral membrane protein subunits SDHC and SDHD. SDHA is an acronym for succinate dehydrogenase complex subunit A. The succinate dehydrogenase (SDH) protein complex catalyzes the oxidation of succinate (succinate + ubiquinone => fumarate + ubiquinol). The SDHA subunit is connected to the SDHB subunit on the hydrophilic, catalytic end of the complex, and weighs 72.7 kDA. Mutations in the SDHA subunit have a distinct pathology from mutations in the SDHB/SDHC/SDHD subunits; it is the only subunit to never have shown tumor suppressor behaviour. Heterozygous carriers of an SDHA mutation do not develop paragangliomas as has been seen for mutations in the other subunits. This appears to be due to the expression of two similar SDHA genes (Types I and II) in the paraganglia system.

Synonyms:

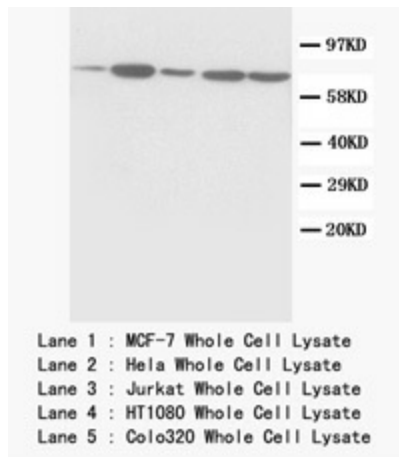
SDHA, SDH2, SDHF, Mitochondria Complex II (Succinat Dehydrogenase) 70 kD Fp subunit

Protein Families:

Druggable Genome

Protein Pathways:

Alzheimer's disease, Citrate cycle (TCA cycle), Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Product images:

Western blot with SDHA Polyclonal Antibody