

**Anti-SDHA Picoband Antibody**  
Catalog # ABO12123**Specification****Anti-SDHA Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P31040</a>
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.

**Anti-SDHA Picoband Antibody - 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 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Mitochondrion inner membrane; Peripheral membrane protein; Matrix side.

**Protein Name**

Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

E.coli-derived human SDHA recombinant protein (Position: S44-L380). Human SDHA shares 98.2% and 97.6% amino acid (aa) sequence identity with mouse and rat SDHA, respectively.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

Storage

**At -20°C for one year. After r°Constitution, 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.

### Anti-SDHA Picoband Antibody - 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:<a href="http://www.uniprot.org/citations/24781757" target="\_blank">24781757</a>). Can act as a tumor suppressor (PubMed:<a href="http://www.uniprot.org/citations/20484225" target="\_blank">20484225</a>).

#### Cellular Location

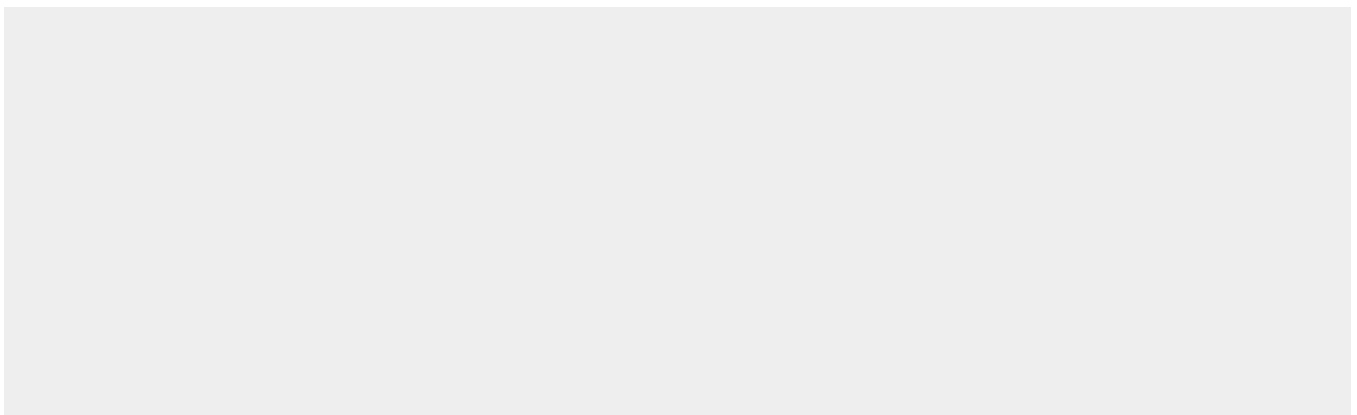
Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q0QF01}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q0QF01}; Matrix side {ECO:0000250|UniProtKB:Q0QF01}

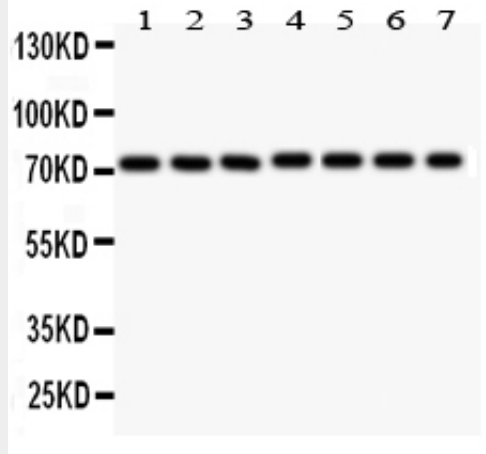
### Anti-SDHA Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-SDHA Picoband Antibody - Images





Anti- SDHA Picoband antibody, ABO12123, Western blotting All lanes: Anti SDHA (ABO12123) at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: Mouse Liver Tissue Lysate at 50ug Lane 3: Rat Brain Tissue Lysate at 50ug Lane 4: Mouse Brain Tissue Lysate at 50ug Lane 5: SMMC Whole Cell Lysate at 40ug Lane 6: Human Placenta Tissue Lysate at 50ug Lane 7: SW620 Whole Cell Lysate at 40ug Predicted bind size: 73KD Observed bind size: 73KD

#### Anti-SDHA Picoband Antibody - 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.