

Datasheet for 600-401-EF5**SDHD Antibody****Overview**

Description:	Anti-SDHD (RABBIT) Antibody - 600-401-EF5
Item No.:	600-401-EF5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The mitochondrial succinate dehydrogenase complex subunit D (SDHD) is one of four proteins that make up the tricarboxylic cycle enzyme succinate dehydrogenase (SCH). Studies have shown that mutations in SDHD often leads to hereditary paragangliomas, usually benign tumors of the autonomic nervous system, suggesting that SDHD also plays a role as a tumor-suppressor gene. In one family with a nonsense mutation (R22X) in the SDHD gene, a loss of heterozygosity was found in the paragangliomas, and within these tumors the enzymatic activity of Complex II in the mitochondrial respiratory chain was completely abolished. Furthermore, high levels of angiogenic factors EPAS1 and VEGF was observed, which may stimulate tumor growth.
Synonyms:	SDHD Antibody, TRAP1, TRAP-1, SDH4, CII-4, CybS
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SDHD
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SDHD antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the internal region of human SDHD.

Purity/Specificity: Anti-SDHD Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least three isoforms of THBS are known to exist; this antibody will detect all three.

Relevant Links:

- [UniProtKB - O14521](#)
- [GeneID - 9392](#)
- [NCBI - NP_002993](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-SDHD Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 17 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:20,000

IF: 2.5 µg/mL

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

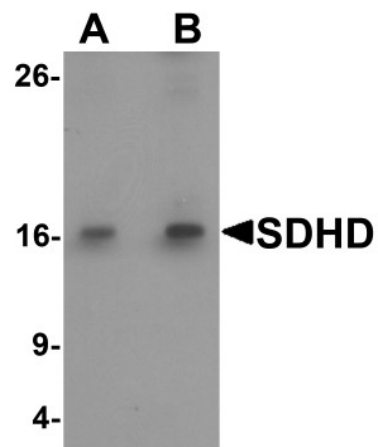
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images

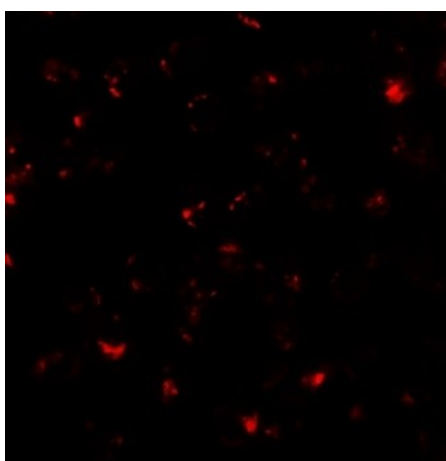


Western Blot

Western blot analysis of SDHD.

Load: EL4 cell lysate.

Primary Antibody: SDHD antibody at (A) 1 and (B) 2 μ g/mL.



Immunofluorescence Microscopy

Immunofluorescence of SDHD.

Cell: EL4 cells.

Primary Antibody: SDHD antibody at 20 μ g/mL.



Immunocytochemistry

Immunocytochemistry of SDHD.

Cell: EL4 cells.

Primary Antibody: SDHD antibody at 2.5 μ g/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.