BOSTER BIOLOGICAL TECHNOLOGY
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Anti-SDHD Antibody

Catalog Number: A01261

About SDHD

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.

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Overview

Product Name	Anti-SDHD Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-SDHD Antibody (Catalog # A01261). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	SDHD Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	SDHD antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	O14521

Technical Details

Immunogen	SDHD antibody was raised against a 15 amino acid synthetic peptide near the center of human SDHD. The immunogen is located within amino acids 30 - 80 of SDHD.
Predicted Reactive Species	Bovine, Pig, Sheep

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Cross Reactivity	At least four isoforms of SDHD are known to exist; this antibody will detect the two longest isoforms.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	SDHD Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	SDHD antibody can be used for detection of SDHD by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunocytochemistry starting at 2.5 ug/mL. For immunofluorescence start at 2.5 ug/mL. Antibody validated: Western Blot in mouse samples; Immunocytochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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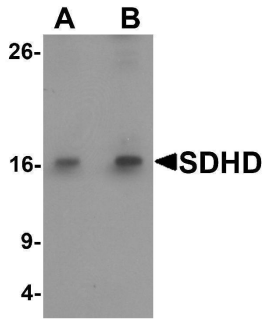
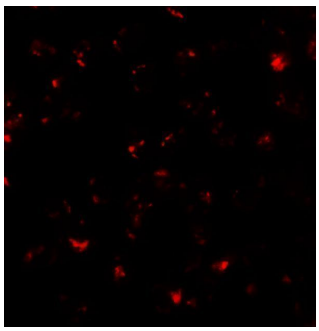
Anti-SDHD Antibody (A01261) Images



Western blot analysis of SDHD in EL4 cell lysate with SDHD antibody at (A) 1 and (B) 2 ug/mL.



Immunocytochemistry of SDHD in EL4 cells with SDHD antibody at 2.5 ug/mL.



Immunofluorescence of SDHD in EL4 cells with SDHD antibody at 20 ug/mL.

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