Revision 1

SDHA Antibody

#5839 Store at -20C

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IF-IC	H M R Mk	Endogenous	70	Rabbit	#P31040	6389

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunofluorescence (Immunocytochemistry)	1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

SDHA Antibody recognizes endogenous levels of total SDHA protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human SDHA protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Succinate dehydrogenase (SDH), also known as Complex II or succinate:quinone oxidoreductase, is a key component of the citric acid cycle and the electron transport chain (1). Specifically, it is involved in the oxidation of succinate (2). SDH consists of four subunits: SDHA, SDHB, SDHC, and SDHD (3). Research studies have shown that defects in SDHA cause complex II deficiency (2). In addition, investigators have observed reduction of SDHA in the striatum of patients with Huntington's disease (3), and reduction of SDHB, SDHC, and SDHD in paragangliomas and phenochromocytomas (4,5).

Background References

1. Oyedotun, K.S. and Lemire, B.D. (2004) *J Biol Chem* 279, 9424-31.
2. Bourgeron, T. et al. (1995) *Nat Genet* 11, 144-9.
3. Benchoua, A. et al. (2006) *Mol Biol Cell* 17, 1652-63.
4. Baysal, B.E. et al. (2000) *Science* 287, 848-51.
5. Feichtinger, R.G. et al. (2010) *BMC Cancer* 10, 149.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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