

#5839 Store at -20°C

SDHA Antibody


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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 70	Source: Rabbit	UniProt ID: #P31040	Entrez-Gene Id: 6389
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Product Usage Information	Application Western Blotting Immunofluorescence (Immunocytochemistry)	Dilution 1:1000 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 pheochromocytomas (4,5).	
Background References	1. Oyedotun, K.S. and Lemire, B.D. (2004) <i>J Biol Chem</i> 279, 9424-31. 2. Bourgeron, T. et al. (1995) <i>Nat Genet</i> 11, 144-9. 3. Benchoua, A. et al. (2006) <i>Mol Biol Cell</i> 17, 1652-63. 4. Baysal, B.E. et al. (2000) <i>Science</i> 287, 848-51. 5. Feichtinger, R.G. et al. (2010) <i>BMC Cancer</i> 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	WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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