

#11998 Store at -20°C

SDHA (D6J9M) XP® Rabbit mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

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

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:100 - 1:400
1:50 - 1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

SDHA (D6J9M) XP® Rabbit mAb recognizes endogenous levels of total SDHA protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly166 of human SDHA protein.

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) *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

WB: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)
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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