

SDH5 (D1S8D) Rabbit mAb

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R Mk	Endogenous	15	Rabbit IgG	#Q9NX18	54949

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

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

SDH5 (D1S8D) Rabbit mAb recognizes endogenous levels of total SDH5 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala155 of human SDH5 protein.

Background

Succinate dehydrogenase subunit 5 (SDH5, SDHAF2) is a subunit of the succinate dehydrogenase (SDH) protein complex responsible for the oxidation of succinate during the citric acid cycle. Mitochondrial SDH5 associates with the catalytic subunit of succinate dehydrogenase and is required for adding FAD cofactor to the SDH catalytic subunit (1). Mutations in the corresponding *SDHAF2* gene are associated with hereditary head and neck paragangliomas, an autosomal disorder characterized by the development of tumors with increased penetrance over time (1). Additional research studies show that SDH5 is involved in the regulation of lung cancer metastasis mediated by the glycogen synthase kinase 3β and β-catenin signaling pathways (2).

Background References

1. Hao, H.X. et al. (2009) *Science* 325, 1139-42.
2. Liu, J. et al. (2013) *J Biol Chem* 288, 29965-73.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

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

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