

SDHAF2 Antibody

Catalog # ASC11381

Product Information

Application	WB, E
Primary Accession	Q9NX18
Other Accession	NP_060311 , 8923450
Reactivity	Human, Mouse, Rat
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Calculated MW	19599
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SDHAF2 antibody can be used for detection of SDHAF2 by Western blot at 1 μ g/mL.

Additional Information

Gene ID	54949
Other Names	Succinate dehydrogenase assembly factor 2, mitochondrial {ECO:0000255 HAMAP-Rule:MF_03057}, SDH assembly factor 2 {ECO:0000255 HAMAP-Rule:MF_03057}, SDHAF2 {ECO:0000255 HAMAP-Rule:MF_03057}, SDHAF2 {ECO:0000255 HAMAP-Rule:MF_03057}
Target/Specificity	SDHAF2; SDHAF2 antibody is predicted to not cross-react with other SDHAF protein family members.
Reconstitution & Storage	SDHAF2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	SDHAF2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SDHAF2 {ECO:0000255 HAMAP-Rule:MF_03057}
Function	Plays an essential role in the assembly of succinate dehydrogenase (SDH), an enzyme complex (also referred to as respiratory complex II) that is a component of both the tricarboxylic acid (TCA) cycle and the mitochondrial electron transport chain, and which couples the oxidation of succinate to fumarate with the reduction of ubiquinone (coenzyme Q) to ubiquinol. Required for flavinylation (covalent attachment of FAD) of the flavoprotein

subunit SDHA of the SDH catalytic dimer.

Cellular Location

Mitochondrion matrix {ECO:0000255 | HAMAP- Rule:MF_03057, ECO:0000269 | PubMed:19628817}

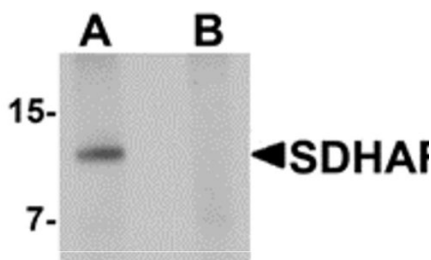
Background

SDHAF2 Antibody: SDHAF2 (Succinate dehydrogenase complex assembly factor 2) encodes a mitochondrial protein needed for FAD cofactor attach to the SDH enzyme which plays a critical role in mitochondria. SDHAF2 is a tumor suppressor, but recent evidence suggests that somatic mutations of the SDHAF2 are unlikely to contribute to parathyroid tumor development in sporadic primary hyperparathyroidism.

References

Hao HX, Khalimonchuk O, Schraders M, et al. SDH5, a gene required for flavination of succinate dehydrogenase, is mutated in paraganglioma. *Science* 2009; 325:1139-42.
Burnichon N, Brière JJ, Libé R, et al. SDHA is a tumor suppressor gene causing paraganglioma. *Hum. Mol. Genet.* 2010; 19:3011-20.
Kunst HP, Rutten MH, de Monnik JP, et al. SDHAF2 (PGL2-SDH5) and hereditary head and neck paraganglioma. *Clin. Cancer Res.* 2011; 17:247-54
Starker LF, Delgado-Verdugo A, Udelsman R, et al. Expression and somatic mutations of SDHAF2 (SDH5), a novel endocrine tumor suppressor gene in parathyroid tumors of primary hyperparathyroidism. *Endocrine* 2010; 38:397-401.

Images



Western blot analysis of SDHAF2 in rat liver tissue lysate with SDHAF2 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.