

Rabbit SDHAF1 Polyclonal Antibody | anti-SDHF1 antibody

SDHAF1 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285742	Rabbit	Human (Predicted Reactivity: Bovine, Mouse, Rat)	Immunohistochemistry, ELISA, Western Blot

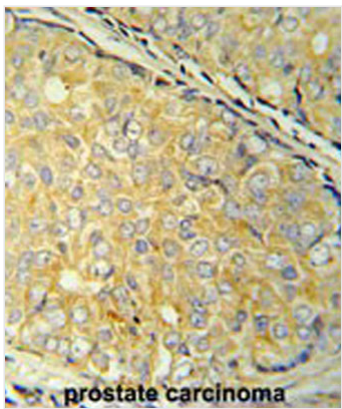
PRODUCT SYNONYMS

SDHAF1; Polyclonal Antibody; SDHAF1 Antibody (Center); Succinate dehydrogenase assembly factor 1; mitochondrial; SDH assembly factor 1; LYR motif-containing protein 8; SDHF1; anti-SDHF1 antibody

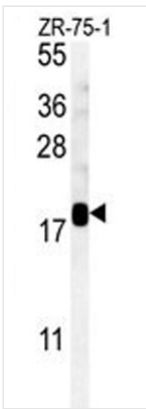
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This SDHAF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 34-62 amino acids from the Central region of human SDHAF1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	34-62
Sequence Length	115
Applicable Applications for anti-SDHF1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
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 (PubMed: , PubMed:). Promotes maturation of the iron-sulfur protein subunit SDHB of the SDH catalytic dimer, protecting it from the deleterious effects of oxidants (PubMed:). May act together with SDHAF3 (PubMed:). Contributes to iron-sulfur cluster incorporation into SDHB by binding to SDHB and recruiting the iron-sulfur transfer complex formed by HSC20, HSPA9 and ISCU through direct binding to HSC20 (PubMed:).
Cellular Location	Mitochondrion matrix
Tissue Location	Ubiquitously expressed.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)
SDHAF1 Antibody (Center)(AAA285742) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SDHAF1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
SDHAF1 Antibody (Center)(AAA285742) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the SDHAF1 antibody detected the SDHAF1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-SDHAF1 antibody	The succinate dehydrogenase (SDH) complex (or complex II) of the mitochondrial respiratory chain is composed of 4 individual subunits. The protein encoded by this gene resides in the mitochondria, and is essential for SDH assembly, but does not physically associate with the complex in vivo. Mutations in this gene are associated with SDH-defective infantile leukoencephalopathy (mitochondrial complex II deficiency).
References	Ghezzi, D., et al. Nat. Genet. (2009) In press : Hoffmann, T.W., et al. Transplant. Proc. 41(2):654-656(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	111038124
NCBI GeneID	644096
NCBI Accession #	NP_001036096.1
NCBI GenBank Nucleotide #	NM_001042631.2
UniProt Accession #	A6NFY7; B2RPM7
Molecular Weight	12806
NCBI Official Full Name	succinate dehydrogenase assembly factor 1, mitochondrial
NCBI Official Synonym Full Names	succinate dehydrogenase complex assembly factor 1
NCBI Official Symbol	SDHAF1
NCBI Official Synonym Symbols	LYRM8
NCBI Protein Information	succinate dehydrogenase assembly factor 1, mitochondrial
UniProt Protein Name	Succinate dehydrogenase assembly factor 1, mitochondrial
UniProt Gene Name	SDHAF1
UniProt Synonym Gene Names	SDHAF1
UniProt Entry Name	SDHF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

