



Rabbit Anti-SCCD antibody

SL8848R

Product Name:	SCCD
Chinese Name:	抑癌蛋白UBIAD1抗体
Alias:	UBIAD1; RP4-796F18.1; SCCD; TERE 1; tere1; Transitional epithelia response protein; Transitional epithelial response protein 1; UbiA prenyltransferase domain containing 1; UbiA prenyltransferase domain containing protein 1; UbiA prenyltransferase domain-containing protein 1; UBIA1 HUMAN; UBIAD 1; Ubiad1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	37kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SCCD:2-100/338
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes a protein thought to be involved in cholesterol and phospholipid metabolism. Mutations in this gene are associated with Schnyder crystalline corneal dystrophy. [provided by RefSeq, Oct 2008]

Function:

Prenyltransferase that mediates the formation of menaquinone-4 (MK-4) and coenzyme Q10. MK-4 is a vitamin K2 isoform present at high concentrations in the brain, kidney and pancreas, and is required for endothelial cell development. Mediates the conversion of phyloquinone (PK) into MK-4, probably by cleaving the side chain of phyloquinone (PK) to release 2-methyl-1,4-naphthoquinone (menadione; K3) and then prenylating it with geranylgeranyl pyrophosphate (GGPP) to form MK-4. Also plays a role in cardiovascular development independently of MK-4 biosynthesis, by acting as a coenzyme Q10 biosynthetic enzyme: coenzyme Q10, also named ubiquinone, plays an important antioxidant role in the cardiovascular system. Mediates biosynthesis of coenzyme Q10 in the Golgi membrane, leading to protect cardiovascular tissues from NOS3/eNOS-dependent oxidative stress.

Subcellular Location:

Endoplasmic reticulum membrane. Cytoplasm. Nucleus. Mitochondrion.

Tissue Specificity:

Ubiquitously expressed.

DISEASE:

Defects in UBIAD1 are the cause of crystalline corneal dystrophy of Schnyder (SCCD) [MIM:121800]. SCCD is a rare autosomal dominant disease characterized by progressive corneal opacification resulting from abnormal deposition of cholesterol and phospholipids.

Similarity:

Belongs to the ubiA prenyltransferase family.

SWISS:

Q9Y5Z9

Gene ID:

29914

Database links:

[Entrez Gene: 29914](#) Human

[Entrez Gene: 71707](#) Mouse

[Entrez Gene: 313706](#) Rat

[Omim: 611632](#) Human

[SwissProt: Q9Y5Z9](#) Human

[SwissProt: Q9DC60](#) Mouse

[SwissProt: D3ZG27](#) Rat

[Unigene: 522933](#) Human

[Unigene: 292503](#) Mouse

[Unigene: 203344](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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