

Rabbit anti-Human SCO1 Polyclonal Antibody | anti-SCO1 antibody

Anti-SCO1 Antibody, Rabbit Polyclonal

CATALOG # AAA256049	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

SCO1; Polyclonal Antibody; Anti-SCO1 Antibody; Rabbit Polyclonal; SCO1 Antibody; Rabbit PAb; Antigen Affinity Purified; SCO1 cytochrome c oxidase assembly protein; Anti-SCOD1 Antibody; anti-SCO1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human SCO1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-SCO1 antibody	IHC (Immunohistochemistry)
Immunogen	E Coli-derived Human SCO1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human SCO1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human SCO1 in human liver with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human SCO1 in human kidney with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-SCO1 antibody	Synthesis of cytochrome c oxidase 1 (SCO1) is a ubiquitously expressed, mitochondrial protein with essential roles in cytochrome c oxidase (COX) assembly and the regulation of copper homeostasis. SCO1 patients present with severe forms of early-onset disease, and ultimately succumb from liver, heart, or brain failure. Sco1 is a metallochaperone that is required for copper delivery to the Cu(A) site in the CoxII subunit of cytochrome c oxidase. The only known missense mutation in human Sco1, a P174L substitution in the copper-binding domain, is associated with a fatal neonatal hepatopathy. Sco1, a protein required for the proper assembly of cytochrome c oxidase, has a soluble domain anchored to the cytoplasmic membrane through a single transmembrane segment.
References	Wei XB, et al. (2017) Synthesis of cytochrome c oxidase 1 (sco1) inhibits insulin sensitivity by decreasing copper levels in adipocytes. Biochem Biophys Res Commun 491 (3): 814-820.Cobine PA, et al. (2006) The p174I mutation in human sco1 severely compromises cox17-dependent metallation but does not impair copper binding. J Biol Chem 281 (18): 12270-12276.Balatri E, et al. (2003) Solution structure of sco1: A thioredoxin-like protein involved in cytochrome c oxidase assembly. Structure 11 (11): 1431-1443.Baker ZN, et al. (2017) The mitochondrial metallochaperone sco1 maintains ctr1 at the plasma membrane to preserve copper homeostasis in the murine heart. Hum Mol Genet 26 (23): 4617-4628.

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sco1-antibody-immunohistochemistry-elisa/256049>