

Rabbit SCO1 Polyclonal Antibody | anti-SCO1 antibody

SCO1 Antibody

CATALOG # AAA307171	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
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PRODUCT SYNONYMS

SCO1; Polyclonal Antibody; SCO1 Antibody; Synthesis of cytochrome c oxidase 1; cytochrome oxidase deficient homolog 1; anti-SCO1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Affinity chromatography purified via peptide column
Form/Format	Supplied in PBS containing 0.02% sodium azide.
Sequence Length	301
Applicable Applications for anti-SCO1 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen Type	Peptide
Immunogen Description	Raised against a 14 amino acid peptide from near the center of human SCO1.
Target Name	SCO1
Preparation and Storage	Can be stored at -20 degree C, stable for 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.

IMAGES


IHC (Immunohistochemistry)

Immunohistochemistry of SCO1 in human brain tissue with SCO1 antibody at 2.5 ug/mL.


WB (Western Blot)

Western blot analysis of SCO1 in human brain tissue lysate with SCO1 antibody at (A) 0.5 and (B) 1 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-SCO1 antibody

Synthesis of cytochrome c oxidase 1 was initially identified in yeast as one of two cytochrome c oxidase (COX) assembly proteins that enable the assembly of cytochrome c holoenzyme, a complex that catalyzes the transfer of reducing equivalents from cytochrome c to molecular oxygen and pumps protons across the inner mitochondrial membrane. Like their yeast homologs, the function of both SCO1 and SCO2 are dependent on copper ion binding. Mutations in either gene can lead to cytochrome c oxidase respiratory chain defects, with a missense mutation in human SCO1 (P174L) associated with a fatal neonatal hepatopathy when the second allele is also non-functional, suggesting the pathology is due to loss of function. It has been suggested that this mutation alters the SCO1 affinity for the copper (I) ion, thus impairing the efficiency of copper transfer to the cytochrome c oxidase. At least two isoforms of SCO1 are known to exist and both are recognized by the SCO1 antibody. This SCO1 antibody has no cross-reactivity to SCO2.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4759068
NCBI GeneID	6341
NCBI Accession #	NP_004580.1
NCBI GenBank Nucleotide #	NM_004589.3
UniProt Accession #	O75880; B2RDM0
Molecular Weight	33,814 Da
NCBI Official Full Name	protein SCO1 homolog, mitochondrial
NCBI Official Synonym Full Names	SCO1 cytochrome c oxidase assembly protein
NCBI Official Symbol	SCO1
NCBI Official Synonym Symbols	SCOD1
NCBI Protein Information	protein SCO1 homolog, mitochondrial
UniProt Protein Name	Protein SCO1 homolog, mitochondrial
UniProt Gene Name	SCO1
UniProt Synonym Gene Names	SCOD1
UniProt Entry Name	SCO1_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sco1-antibody-immunohistochemistry-western-blot-elisa/307171>