

SCO1 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS11438**Specification**

SCO1 Antibody (Internal) - Product Information

Application	IF, WB, IHC
Primary Accession	O75880
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34kDa KDa

SCO1 Antibody (Internal) - Additional Information**Gene ID** 6341**Other Names**

Protein SCO1 homolog, mitochondrial, SCO1, SCOD1

Target/Specificity

19 amino acid peptide from near the center of human SCO1.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

SCO1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

SCO1 Antibody (Internal) - Protein Information**Name** SCO1**Synonyms** SCOD1**Function**

Copper metallochaperone essential for the maturation of cytochrome c oxidase subunit II (MT-CO2/COX2). Not required for the synthesis of MT-CO2/COX2 but plays a crucial role in stabilizing MT-CO2/COX2 during its subsequent maturation. Involved in transporting copper to the Cu(A) site on MT-CO2/COX2 (PubMed:<[a href="http://www.uniprot.org/citations/15659396" target="_blank">15659396](http://www.uniprot.org/citations/15659396), PubMed:<[a href="http://www.uniprot.org/citations/16735468" target="_blank">16735468](http://www.uniprot.org/citations/16735468), PubMed:<[a href="http://www.uniprot.org/citations/17189203" target="_blank">17189203](http://www.uniprot.org/citations/17189203), PubMed:<[a href="http://www.uniprot.org/citations/19336478" target="_blank">19336478](http://www.uniprot.org/citations/19336478), PubMed:<[a href="http://www.uniprot.org/citations/15229189" target="_blank">15229189](http://www.uniprot.org/citations/15229189)). Plays an important role in the regulation of copper homeostasis by controlling the abundance and cell membrane localization of copper transporter CTR1 (By similarity).

Cellular Location

Mitochondrion. Mitochondrion inner membrane; Single-pass membrane protein

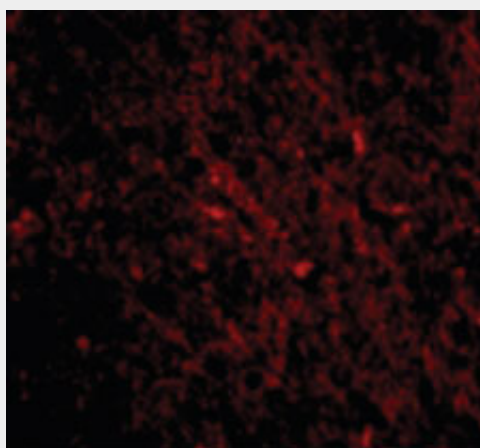
Tissue Location

Predominantly expressed in tissues characterized by high rates of oxidative phosphorylation (OxPhos), including muscle, heart, and brain.

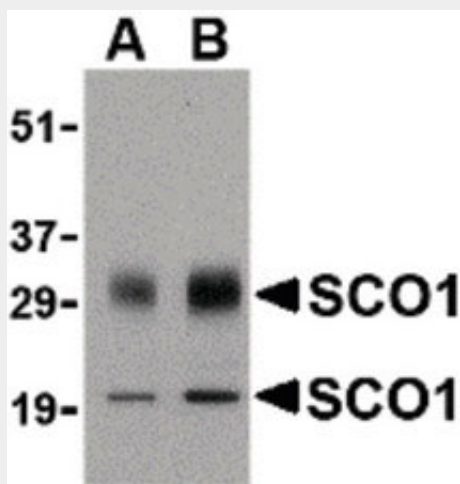
SCO1 Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

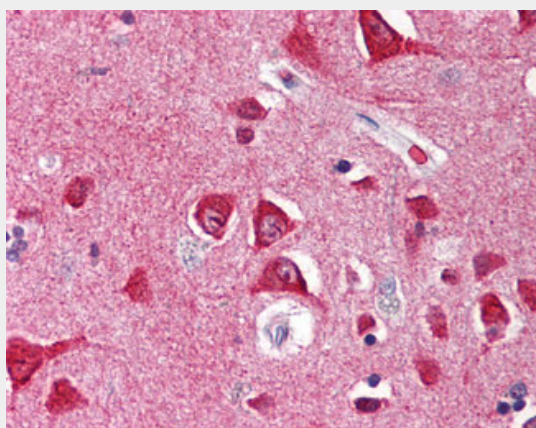
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SCO1 Antibody (Internal) - Images

Immunofluorescence of SCO1 in Human Brain cells with SCO1 antibody at 20 ug/ml.



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



Anti-SCO1 antibody IHC of human brain, cortex.

SCO1 Antibody (Internal) - Background

Thought to play a role in cellular copper homeostasis, mitochondrial redox signaling or insertion of copper into the active site of COX.

SCO1 Antibody (Internal) - References

- Petruzzella V.,et al.Genomics 54:494-504(1998).
Horvath R.,et al.Biochem. Biophys. Res. Commun. 276:530-533(2000).
Peng Y.,et al.Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.