

SCO2 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11439**Specification**

SCO2 Antibody (C-Terminus) - Product Information

Application	IF, WB, IHC
Primary Accession	O43819
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30kDa KDa

SCO2 Antibody (C-Terminus) - Additional Information**Gene ID** 9997**Other Names**

Protein SCO2 homolog, mitochondrial, SCO2

Target/Specificity

19 amino acid peptide from near the carboxy terminus of human SCO2.

Reconstitution & Storage

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

Precautions

SCO2 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

SCO2 Antibody (C-Terminus) - Protein Information**Name** SCO2**Function**

Copper metallochaperone essential for the synthesis and maturation of cytochrome c oxidase subunit II (MT-CO2/COX2). Involved in transporting copper to the Cu(A) site on MT-CO2/COX2 (PubMed: [15229189](http://www.uniprot.org/citations/15229189), PubMed: [17189203](http://www.uniprot.org/citations/17189203)). Also acts as a thiol-disulfide oxidoreductase to regulate the redox state of the cysteines in SCO1 during maturation of MT-CO2/COX2 (PubMed: [19336478](http://www.uniprot.org/citations/19336478)).

Cellular Location

Mitochondrion inner membrane; Single-pass membrane protein

Tissue Location

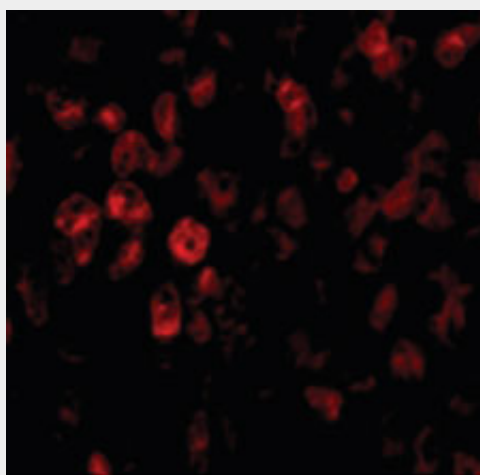
Ubiquitous.

SCO2 Antibody (C-Terminus) - Protocols

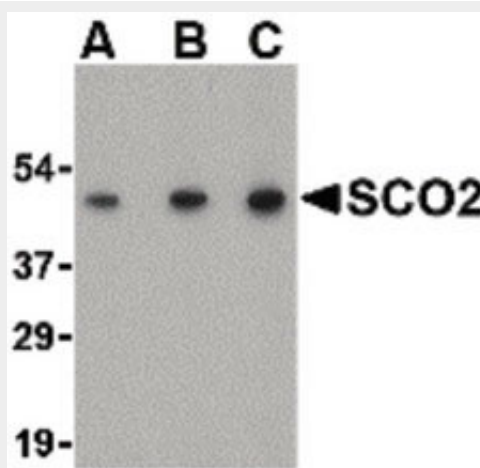
Provided below are standard protocols that you may find useful for product applications.

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

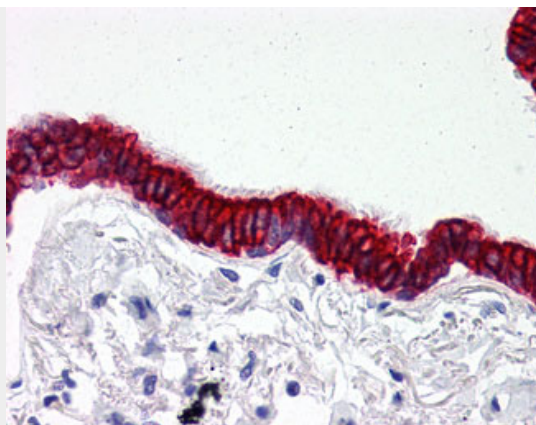
SCO2 Antibody (C-Terminus) - Images



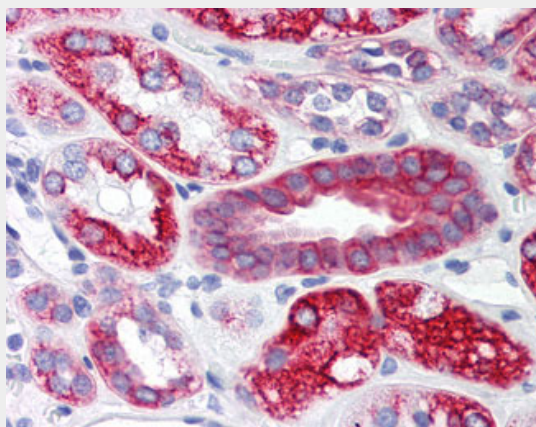
Immunofluorescence of SCO2 in Human Liver cells with SCO2 antibody at 20 ug/ml.



Western blot of SCO2 in human liver tissue lysate with SCO2 antibody at (A) 0.5, (B) 1 and (C) 2...



Anti-SCO2 antibody IHC of human lung, respiratory epithelium.



Anti-SCO2 antibody IHC of human kidney.

SCO2 Antibody (C-Terminus) - Background

Acts as a copper chaperone, transporting copper to the Cu(A) site on the cytochrome c oxidase subunit II (COX2).

SCO2 Antibody (C-Terminus) - References

Papadopoulou L.C., et al. Nat. Genet. 23:333-337(1999).
Collins J.E., et al. Genome Res. 13:27-36(2003).
Collins J.E., et al. Genome Biol. 5:R84.1-R84.11(2004).
Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011).
Banci L., et al. Structure 15:1132-1140(2007).