10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# SCO1 Antibody (Center)
**Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP21640c**

## Specification

### SCO1 Antibody (Center) - Product Information

| | |
|---|---|
| Application | **WB,E** |
| Primary Accession | O75880 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **33814** |

### SCO1 Antibody (Center) - Additional Information

**Gene ID** 6341

**Other Names**
Protein SCO1 homolog, mitochondrial, SCO1, SCOD1

**Target/Specificity**
This SCO1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 125-158 amino acids from the Central region of human SCO1.

**Dilution**
WB~~1:2000

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

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

### SCO1 Antibody (Center) - 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:15229189, PubMed:15659396, PubMed:16735468, PubMed:17189203, PubMed:19336478). 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

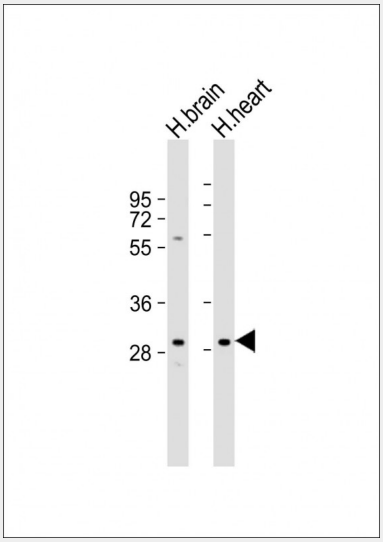
**Tissue Location**
Predominantly expressed in tissues characterized by high rates of oxidative phosphorylation (OxPhos), including muscle, heart, and brain.

## SCO1 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## SCO1 Antibody (Center) - Images




All lanes : Anti-SCO1 Antibody (Center) at 1:2000 dilution Lane 1: human brain lysate Lane 2: human heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 34 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

## SCO1 Antibody (Center) - Background

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

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Horvath R.,et al.Biochem. Biophys. Res. Commun. 276:530-533(2000).
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Ota T.,et al.Nat. Genet. 36:40-45(2004).
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