

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

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**SCO1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O75880</a>
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:[15659396](#), PubMed:[16735468](#), PubMed:[17189203](#), PubMed:[19336478](#), PubMed:[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**

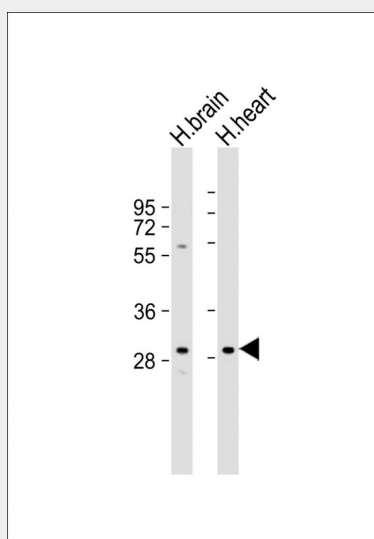
Predominantly expressed in tissues characterized by high rates of oxidative phosphorylation (OxPhos), including muscle, heart, and brain.

### **SCO1 Antibody (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 Cytometry](#)
- [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% NFD/MTBST.

### **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.

**SCO1 Antibody (Center) - 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.