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### Datasheet for ABIN6990718

## anti-SCO2 antibody (C-Term)

Overview	
Quantity:	0.1 mg
Target:	SC02
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SCO2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)
Product Details	
Immunogen:	SCO2 antibody was raised against a 19 amino acid synthetic peptide from near the carboxy terminus of human SCO2. The immunogen is located within the last 50 amino acids of SCO2.
Isotype:	IgG
Purification:	SCO2 Antibody is affinity chromatography purified via peptide column.
Target Details	
Target:	SC02
Alternative Name:	SC02 (SC02 Products)
Background:	SCO2 Antibody: Synthesis of cytochrome c oxidase 2 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 SCO2 and SCO1 are dependent on copper ion binding.		
Recent studies suggest that SCO2 expression is regulated by p53, so that a decrease in p53		
expression, such as in numerous tumors and cells lines, the drop in SCO2 expression leads to a		
shift from normal aerobic respiration towards the production of glycolytic ATP. Defects in the		
SCO2 protein are also associated with fatal infantile cardioencephalomyopathy and COX		
deficiency.		

Molecular Weight:

Predicted: 29 kDa

Observed: 33 kDa

Gene ID:

9997

UniProt:

043819

Pathways:

Transition Metal Ion Homeostasis, Warburg Effect

#### **Application Details**

Application Notes:

SCO2 antibody can be used for detection of SCO2 by Western blot at 0.5 - 2  $\mu$ ,g/mL. Antibody can also be used for immunohistochemistry starting at 2.5  $\mu$ ,g/mL. For immunofluorescence start at 20  $\mu$ ,g/mL.

Antibody validated: Western Blot in human samples, Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.

Restrictions:

For Research Use only

#### Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	SCO2 Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

Storage:	-20 °C,4 °C
Storage Comment:	SCO2 antibody can be stored at 4°C for three months and -20°C, stable for up to 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.