Datasheet for ABIN500688

anti-SCO2 antibody (C-Term)

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2 Images

Overview

Quantity:	0.1 mg
Target:	SCO2
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SCO2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	SCO2 antibody was raised against a 19 amino acid peptide from near the carboxy terminus of human SCO2.
Isotype:	IgG
Specificity:	This antibody detects SCO2.
Cross-Reactivity (Details):	Species reactivity (tested):Human
Purification:	Peptide affinity chromatography

Target Details

Target:	SCO2

Target Details

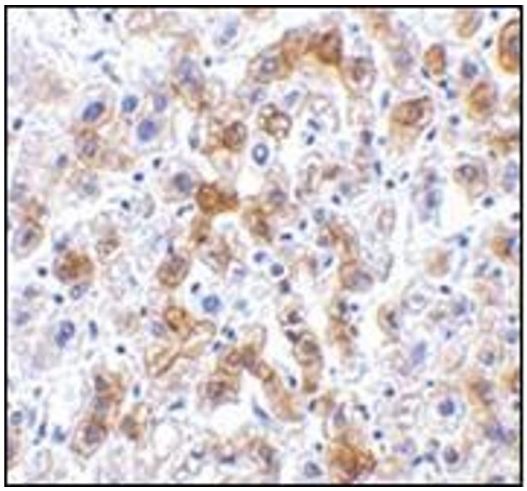
Alternative Name:	SCO2 (SCO2 Products)
Background:	Synthesis of cytochrome c oxidase 2 was initially identified in yeast as one of two cytochrome c oxidase (COX) assembly proteins that enable the assembly of cytochrome c holoenzyme, a complex that catalyzes the transfer of reducing equivalents from cytochrome 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.Synonyms: Synthesis of cytochrome c oxidase 2, cytochrome oxidase deficient homolog 2
Gene ID:	3184203
UniProt:	O43819, Q5KW01
Pathways:	Transition Metal Ion Homeostasis, Warburg Effect

Application Details

Application Notes:	ELISA. Western blot: 0.5 - 1 µg/mL. Immunohistochemistry on paraffin sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

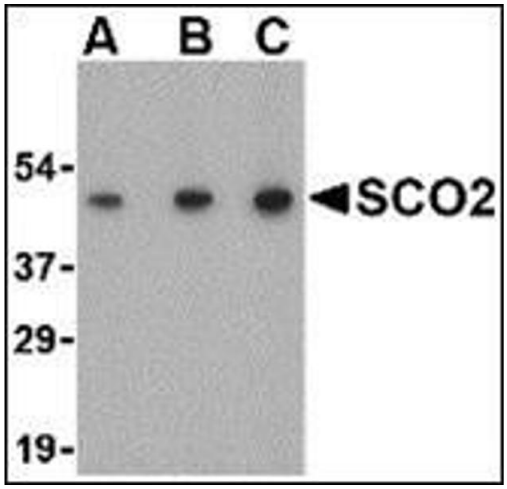
Handling

Buffer:	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 Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of SCO2 in human liver tissue with this product at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of SCO2 in human liver tissue lysate with this product at (A) 0.5, (B) 1 and (C) 2 µ g/ml.