

Anti-SCO2 Antibody

Catalog Number: A02749

About SCO2

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.

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Overview

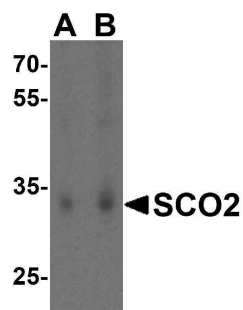
Product Name	Anti-SCO2 Antibody
Reactive Species	Human
Description	Boster Bio Anti-SCO2 Antibody (Catalog # A02749). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	SCO2 Antibody is supplied in PBS containing $\leq 0.09\%$ sodium azide.
Storage Instructions	SCO2 antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	O43819

Technical Details

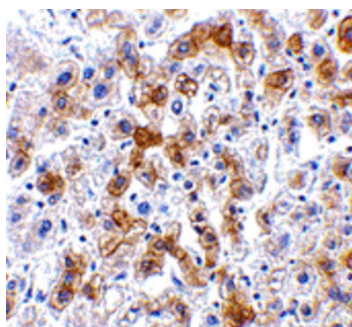
Immunogen	SCO2 antibody was raised against a 19 amino acid synthetic peptide from near the carboxy terminus of human SCO2. The immunogen is located within the last 50 amino acids of SCO2.
Predicted Reactive Species	Bovine, Mouse

Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	SCO2 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	SCO2 antibody can be used for detection of SCO2 by Western blot at 0.5 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/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. Optimal dilutions for each application should be determined by the researcher.

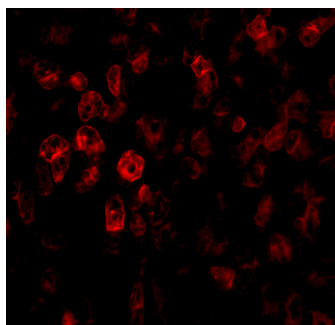
Anti-SCO2 Antibody (A02749) Images



Western blot analysis of SCO2 in HL60 cell lysate with SCO2 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of SCO2 in human liver tissue with SCO2 antibody at 2.5 ug/mL.



Immunofluorescence of SCO2 in Human Liver tissue with SCO2 antibody at 20 ug/mL.

Anti-SCO2 Antibody

For Research Use Only. Not for use in diagnostic procedures.