SCO2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SCO2, Polyclonal Antibody
Full Product Name	SCO2 Polyclonal Conjugated Antibody
Product Gene Name	anti-SCO2 antibody
Product Synonym Names	SCO2 Conjugated Antibody; SCO2; CEMCOX1; MYP6; SCO1L; protein SCO2 homolog; mitochondrial
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Purity/Purification	Affinity purification
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	30kDa
OMIM	604272
3D Structure	ModBase 3D Structure for O43819
Immunogen	Recombinant fusion protein of human SCO2 (NP_001162582.1).
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-SCO2 antibody	Most Applications
Application Notes for anti-SCO2 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-SCO2 antibody	Cytochrome c oxidase (COX) catalyzes the transfer of electrons from cytochrome c to molecular oxygen, which helps to maintain the proton gradient across the inner mitochondrial membrane that is necessary for aerobic ATP production. Human COX is a multimeric protein complex that requires several assembly factors; this gene encodes one of the COX assembly factors. The encoded protein is a metallochaperone that is involved in the biogenesis of cytochrome c oxidase subunit II. Mutations in this gene are associated with fatal infantile encephalocardiomyopathy and myopia 6.
Other Notes	Small volumes of anti-SCO2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for SCO2 purchase	MBS9441980 is an antibody targeting SCO2. Also known as SCO2 Polyclonal Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SCO2. It may not necessarily be applicable to this product.

NCBI GI #	281182727
NCBI GeneID	9997
NCBI Accession #	NP_001162582.1
UniProt Primary Accession #	O43819
UniProt Related Accession #	O43819
GenBank Nucleotide #	NP_001162582.1
NCBI Official Full Name	protein SCO2 homolog, mitochondrial
NCBI Official Synonym Full Names	synthesis of cytochrome C oxidase 2
NCBI Official Symbol	SCO2
NCBI Official Synonym Symbols	TP; MYP6; TYMP; ECGF1; SCO1L; CEMCOX1; PD-ECGF; TdRPase; Gliostatin
UniProt Protein Name	Protein SCO2 homolog, mitochondrial
Protein Family	Protein
UniProt Gene Name	SCO2
UniProt Entry Name	SCO2_HUMAN
NCBI Protein Information	protein SCO2 homolog, mitochondrial
UniProt Comments for SCO2	SCO2: Acts as a copper chaperone, transporting copper to the Cu(A) site on the cytochrome c oxidase subunit II (COX2). Defects in SCO2 are the cause of fatal infantile cardioencephalomyopathy with cytochrome c oxidase deficiency (FIC). This disease is characterized by hypertrophic cardiomyopathy, lactic acidosis, and gliosis. Heart and skeletal muscle show reductions in cytochrome c oxidase (COX) activity, whereas liver and fibroblasts show mild COX deficiencies. Belongs to the SCO1/2 family. Protein type: Mitochondrial Chromosomal Location of Human Ortholog: 22q13.33 Cellular Component: nucleoplasm; myofibril; mitochondrion; mitochondrial inner membrane Molecular Function: copper ion binding Biological Process: cellular copper ion homeostasis; eye development; in utero embryonic development; respiratory chain complex IV assembly; response to activity; copper ion transport; muscle system process Disease: Cardioencephalomyopathy, Fatal Infantile, Due To Cytochrome C Oxidase Deficiency 1; Myopia 6
Research Articles on SCO2	**1.** High expression of synthesis of cytochrome c oxidase 2 and TP53-induced glycolysis and apoptosis regulator can predict poor prognosis in human lung adenocarcinoma
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