Datasheet for ABIN7600609

anti-SCO1 antibody (AA 21-301)

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Overview

Quantity:	100 µg
Target:	SCO1
Binding Specificity:	AA 21-301
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SCO1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-SCO1 Antibody Picoband®
Immunogen:	E.coli-derived human SCO1 recombinant protein (Position: R21-S301).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-SCO1 Antibody Picoband® (ABIN7600609). Tested in ELISA, Flow Cytometry, IF, IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	SCO1
Alternative Name:	SCO1 (SCO1 Products)
Background:	Synonyms: Peroxisome proliferator-activated receptor gamma coactivator 1-beta, PGC-1-beta, PPAR-gamma coactivator 1-beta, PPARGC-1-beta, PGC-1-related estrogen receptor alpha coactivator, PPARGC1B, PERC, PGC1, PGC1B, PPARGC1 Tissue Specificity: Preferentially expressed in melanocytes. Background: Protein SCO1 homolog, mitochondrial, also known as SCO1, cytochrome c oxidase assembly protein, is a protein that in humans is encoded by the SCO1 gene. Mammalian cytochrome c oxidase (COX) catalyzes the transfer of reducing equivalents from cytochrome c to molecular oxygen and pumps protons across the inner mitochondrial membrane. In yeast, 2 related COX assembly genes, SCO1 and SCO2 (synthesis of cytochrome c oxidase), enable subunits 1 and 2 to be incorporated into the holoprotein. This gene is the human homolog to the yeast SCO1 gene.
Molecular Weight:	30 kDa
Gene ID:	6341
UniProt:	O75880
Pathways:	Sensory Perception of Sound, Transition Metal Ion Homeostasis, Stem Cell Maintenance, Production of Molecular Mediator of Immune Response, Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Horvath, R., Lochmuller, H., Stucka, R., Yao, J., Shoubridge, E. A., Kim, S.-H., Gerbitz, K.-D., Jaksch, M. Characterization of human SCO1 and COX17 genes in mitochondrial cytochrome-c-oxidase deficiency. Biochem. Biophys. Res. Commun. 276: 530-533, 2000. 2. Leary, S. C., Cobine, P. A., Nishimura, T., Verdijk, R. M., de Krijger, R., de Coo, R., Tarnopolsky, M. A., Winge, D. R., Shoubridge, E. A. Cox19 mediates the transduction of a mitochondrial redox signal from SCO1 that regulates ATP7A-mediated cellular copper efflux. Molec. Biol. Cell 24: 683-691, 2013. 3. Leary, S. C., Kaufman, B. A., Pellecchia, G., Guercin, G.-H., Mattman, A., Jaksch, M.,

Application Details

	Shoubridge, E. A. Human SCO1 and SCO2 have independent, cooperative functions in copper delivery to cytochrome c oxidase. Hum. Molec. Genet. 13: 1839-1848, 2004.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.