

For Research Use Only

SCO2 Polyclonal antibody

Catalog Number: 21223-1-AP

13 Publications



Basic Information

Catalog Number:	21223-1-AP	GenBank Accession Number:	BC102025	Purification Method:	Antigen affinity purification
Size:	150ul, Concentration: 400 ug/ml by Nanodrop and 253 ug/ml by Bradford method using BSA as the standard;	GenID (NCBI):	9997	Recommended Dilutions:	WB: 1:500-1:3000 IHC: 1:50-1:500 IF-P: 1:50-1:500
Source:	Rabbit	UNIPROT ID:	Q43819		
Isotype:	IgG	Full Name:	SCO cytochrome oxidase deficient homolog 2 (yeast)		
Immunogen Catalog Number:	AG15663	Calculated MW:	266 aa, 30 kDa		
		Observed MW:	27-30 kDa		

Applications

Tested Applications:	WB, IHC, IF-P, ELISA	Positive Controls:	WB: HEK-293 cells, HUVEC cells, HepG2 cells
Cited Applications:	WB, IHC	IHC:	mouse skeletal muscle tissue, human hepatocirrhosis tissue, human heart tissue
Species Specificity:	human, mouse	IF-P:	mouse skeletal muscle tissue,
Cited Species:	human, mouse		
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			

Background Information

Human SCO2 is a mitochondrial membrane-bound protein involved in copper supply for the assembly of cytochrome c oxidase in eukaryotes. It is involved in the maintenance of cell copper homeostasis or, limited to HScO2, as a downstream mediator of the Warburg effect, as its expression is regulated by p53 (PMID:17850752). This protein belongs to the SCO1/2 family and defects in SCO2 are the cause of fatal infantile cardioencephalomyopathy with cytochrome c oxidase deficiency (FIC).

Notable Publications

Author	Pubmed ID	Journal	Application
Fabao Liu	26309161	Oncotarget	WB,IHC
David Pacheu-Grau	25959673	Cell Metab	WB
Kunlun Yin	33723373	Cell Death Differ	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

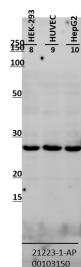
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21223-1-AP (SCO2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.

