

For Research Use Only

# SCO1 Polyclonal antibody, PBS Only

Catalog Number:12614-1-PBS



## Basic Information

Catalog Number:

12614-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3269

GenBank Accession Number:

BC015504

GeneID (NCBI):

6341

UNIPROT ID:

O75880

Full Name:

SCO cytochrome oxidase deficient

homolog 1 (yeast)

Calculated MW:

301 aa, 34 kDa

Observed MW:

30 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

WB, IHC, IP, ELISA

Species Specificity:

human

## Background Information

Human SCO1 and SCO2 are metallochaperones that are essential for the assembly of the catalytic core of cytochrome c oxidase (COX). SCO1 appears to be involved in the folding and assembly of cytochrome oxidase subunit II, and possibly of other proteins of this subcompartment. It is a 33 kDa protein which displays limited homology to members of the DnaJ family(PMID:14731768). It is also named as SCOD1 and belongs to the SCO1/2 family. It can exist as a homodimer(PMID:16735468). Defects in SCO1 are a cause of mitochondrial complex IV deficiency (MT-C4D).

## Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

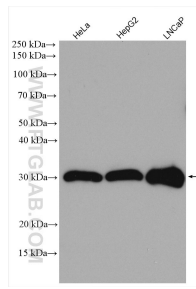
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

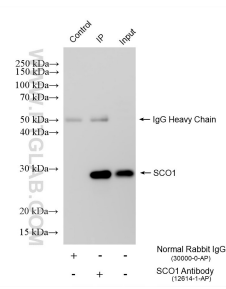
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

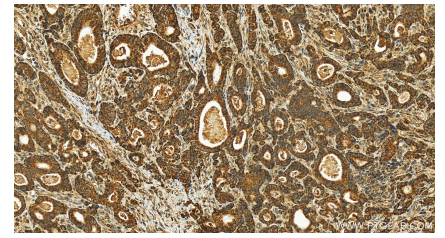
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12614-1-AP (SCO1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12614-1-PBS in a different storage buffer formulation.



IP result of anti-SCO1 (IP:12614-1-AP, 4ug; Detection:12614-1-AP 1:1000) with HepG2 cells lysate 1600 ug. This data was developed using the same antibody clone with 12614-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 12614-1-AP (SCO1 antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12614-1-PBS in a different storage buffer formulation.