10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SPCS3 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6676b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P61009
Other Accession	Q3SZU5
Reactivity	Human, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20252
Calculated MW	20313
Antigen Region	152-180

Additional Information

Gene ID	60559
Other Names	Signal peptidase complex subunit 3, 34--, Microsomal signal peptidase 22/23 kDa subunit, SPC22/23, SPase 22/23 kDa subunit, SPCS3, SPC22
Target/Specificity	This SPCS3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 152-180 amino acids from the C-terminal region of human SPCS3.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SPCS3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SPCS3
Synonyms	SPC22

Function	Essential component of the signal peptidase complex (SPC) which catalyzes the cleavage of N-terminal signal sequences from nascent proteins as they are translocated into the lumen of the endoplasmic reticulum (PubMed:27499293, PubMed:34388369). Essential for the SPC catalytic activity, possibly by stabilizing and positioning the active center of the complex close to the lumenal surface (By similarity).
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P61008}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:P61008}

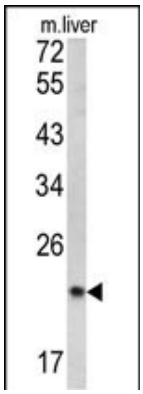
Background

SPCS3 is a component of the microsomal signal peptidase complex which removes signal peptides from nascent proteins as they are translocated into the lumen of the endoplasmic reticulum.

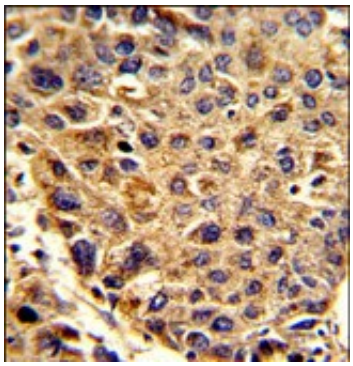
References

Clark,H.F., Genome Res. 13 (10), 2265-2270 (2003)

Images

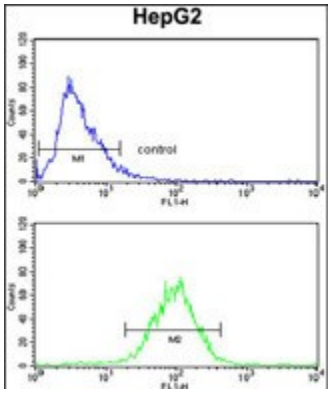


Western blot analysis of SPCS3 antibody (C-term) (Cat. #AP6676b) in mouse liver tissue lysates (35ug/lane). SPCS3 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with SPCS3 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

SPCS3 Antibody (C-term)(Cat.#AP6676b) flow cytometry analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



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