

SPCS3 Rabbit pAb

Catalog # AP99453

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P61009
Other Accession	P61009
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20313
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SPCS3
Epitope Specificity	51-120/180
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the SPCS3 family.
SUBUNIT	Component of the microsomal signal peptidase complex which consists of five members: SEC11A, SEC11C, SPCS1, SPCS2 and SPCS3.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SPCS3 (signal peptidase complex subunit 3), also known as SPC3, is a 180 amino acid single-pass type II membrane protein that localizes to both the microsome and the endoplasmic reticulum (ER) and belongs to the SPCS (signal peptidase complex subunit) family. Existing as a component of the microsomal signal peptidase complex which consists of five members, SPCS3 functions to remove signal peptides from proteins that are translated to the lumen of the ER. The gene encoding SPCS3 maps to human chromosome 4, which encodes nearly 6% of the human genome and has the largest gene deserts (regions of the genome with no protein encoding genes) of all of the human chromosomes. Defects in some of the genes located on chromosome 4 are associated with Huntington's disease, Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease.

Additional Information

Gene ID	60559
Other Names	SPC22/23; SPC22; PRO3567; SPC23; SPC3; YLR066W; 6530401D17Rik; Spcs3; 2900062L11Rik; SPCS3_BOVIN; Microsomal signal peptidase 22/23 kDa subunit (SPC22/23 SPase 22/23 kDa subunit); SPCS3_CANLF; SPCS3_HUMAN; SPCS3_MOUSE; SPCS3_RAT; signal peptidase complex subunit 3; signal peptidase complex subunit 3 homolog (S. cerevisiae)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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 luminal surface (By similarity).
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250 UniProtKB:P61008}; Single-pass type II membrane protein {ECO:0000250 UniProtKB:P61008}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.