For Research Use Only

SFTPC Polyclonal antibody

Catalog Number:10774-1-AP 117 Publications

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Basic Information

Catalog Number:
10774-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1159

GenBank Accession Number:
BC005913

GeneID (NCBI):
6440

UNIPROT ID:
P11686

Full Name:
surfactant protein C

Calculated MW:
21 kDa

Observed MW:
21-25 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:2000
IHC: 1:500-1:2000
IF-P: 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse lung tissue, rat lung tissue

IHC : human lung tissue,

IF-P : mouse lung tissue,

Background Information

SFTPC (surfactant protein C), also named as SFTP2, SP5 and SP-C, is a pulmonary surfactant associated proteins promote alveolar stability by lowering the surface tension at the air-liquid interface in the peripheral air spaces. Defects in SFTPC are the cause of pulmonary surfactant metabolism dysfunction type 2 (SMDP2). Genetic variations in SFTPC are associated with respiratory distress syndrome in premature infants (RDS). Two isoforms of the human protein are produced by alternative splicing. One previous study reported that SFTPC deletion was observed in NSCLC tissues, implying that SFTPC downregulation might be involved in the progression of lung cancer. (PMID: 35081981, PMID: 31379200)

Notable Publications

Author	Pubmed ID	Journal	Application
Aibin Liu	32991738	J Pathol	IHC
Jian Huang	36189316	Front Immunol	WB,IF
Huifang Chen	34645797	Cell Death Dis	WB,IF

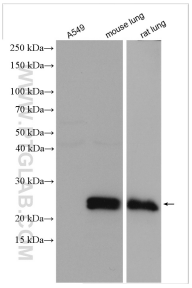
Storage

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

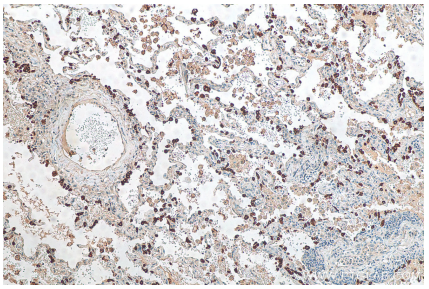
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

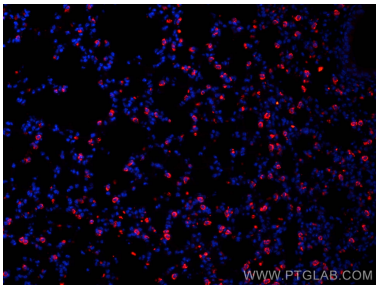
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10774-1-AP (SFTPC antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung tissue slide using 10774-1-AP (SFTPC antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse lung tissue using SFTPC antibody (10774-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).