SFTPC Antibody

Catalog No: #32459

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	SFTPC Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC IF
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total SFTPC protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human SFTPC.
Target Name	SFTPC
Other Names	SP-C; PSP-C; SFTP2; SMDP2; BRICD6
Accession No.	Swiss-Prot:P11686NCBI Gene ID:6440
SDS-PAGE MW	21KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

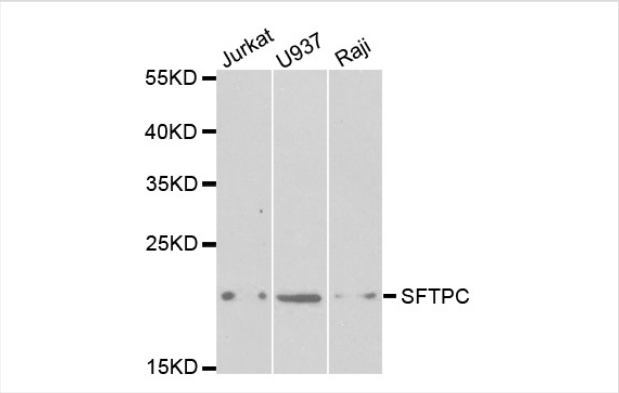
Application Details

Western blotting: 1:500 - 1:2000

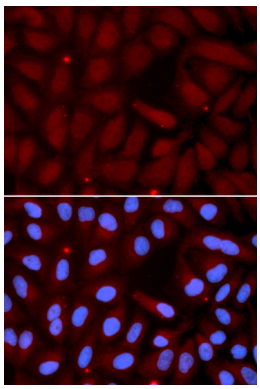
Immunohistochemistry: 1:50 - 1:100

Immunofluorescence: 1:50 - 1:200

Images



Western blot analysis of extracts of various cell lines, using SFTPC antibody.



Immunofluorescence analysis of U2OS cell using SFTPC antibody. Blue: DAPI for nuclear staining.

Background

This gene encodes the pulmonary-associated surfactant protein C (SPC), an extremely hydrophobic surfactant protein essential for lung function and homeostasis after birth. Pulmonary surfactant is a surface-active lipoprotein complex composed of 90% lipids and 10% proteins which include plasma proteins and apolipoproteins SPA, SPB, SPC and SPD. The surfactant is secreted by the alveolar cells of the lung and maintains the stability of pulmonary tissue by reducing the surface tension of fluids that coat the lung. Multiple mutations in this gene have been identified, which cause pulmonary surfactant metabolism dysfunction type 2, also called pulmonary alveolar proteinosis due to surfactant protein C deficiency, and are associated with interstitial lung disease in older infants, children, and adults. Alternatively spliced transcript variants encoding different protein isoforms have been identified.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.