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

SFTPC Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1788a

Product Information

Application	WB, E
Primary Accession	P11686
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5E6A9
Isotype	IgG1
Calculated MW	21013
Description	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.
Immunogen	Purified recombinant fragment of human SFTPC (AA: 60-180) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	6440
Other Names	Pulmonary surfactant-associated protein C, SP-C, Pulmonary surfactant-associated proteolipid SPL(Val), SP5, SFTPC, SFTP2
Dilution	WB~~1/500 - 1/2000 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SFTPC Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SFTPC (HGNC:10802)
Synonyms	SFTP2
Function	Pulmonary surfactant associated proteins promote alveolar stability by lowering the surface tension at the air-liquid interface in the peripheral air spaces.
Cellular Location	Secreted, extracellular space, surface film.

References

1.Am J Respir Cell Mol Biol. 2011 Sep;45(3):498-509. 2.J Biol Chem. 2009 Nov 27;284(48):33377-83.

Images

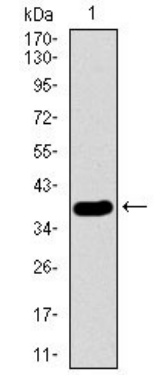


Figure 1: Western blot analysis using SFTPC mAb against human SFTPC recombinant protein. (Expected MW is 38.4 kDa)

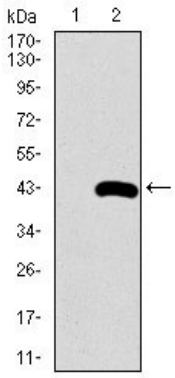


Figure 2: Western blot analysis using SFTPC mAb against HEK293 (1) and SFTPC (AA: 60-180)-hIgGFc transfected HEK293 (2) cell lysate.

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