

Polyclonal Anti-SFTPC Antibody

Catalog Number: PA1933

Description

Gene Name	surfactant protein C
Recommended Protein Name	Pulmonary surfactant-associated protein C
Lot No.	0191212c0233126
Size	100µg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	Reacts with: human Predicted to work with: mouse, rat
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse SFTPC(21-36aa RSQFRIPCCPVHLKRL), identical to the related rat sequence and different from the related human sequence by three amino acids.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .

Application

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Hu	Ms, Rat	-

Tested Species: In-house tested species with positive results.

Predicted Species: Species predicted to be fit for the product based on sequence similarities.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage: At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.

Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB.

Background

SFTPC(Surfactant pulmonary -associated protein C), also known as SFTP2, SPC, PSP-C or PULMONARY SURFACTANT PROTEIN SP5, is a protein that in humans is encoded by the SFTPC gene. It is a membrane protein which manufactures surfactant. Glasser et al. (1988) assigned the SFTPC gene, symbolized SFTP2 by the Human Gene Mapping nomenclature committee, to chromosome 8 by hybridization to somatic cell hybrid DNA. Wood et al. (1994) identified 4 cosmids at the SFTP2 locus by cDNA hybridization. Using a polymorphic CA repeat in the SFTP2 gene and linkage analysis in 8 CEPH families, they located the gene close to D8S298; maximum lod = 19.3 at theta = 0.01. They regionalized the gene to 8p21 by fluorescence in situ hybridization. Moore et al. (1992) showed that the corresponding mouse gene, Sftp2, maps to chromosome 14.

Reference

1. Glasser, S. W., Korfhagen, T. R., Weaver, T. E., Clark, J. C., Pilot-Matias, T., Meuth, J., Fox, J. L., Whitsett, J. A. cDNA, deduced polypeptide structure and chromosomal assignment of human pulmonary surfactant proteolipid, SPL(pVal). J. Biol. Chem. 263: 9-12, 1988.
2. Moore, K. J., D'Amore-Bruno, M. A., Korfhagen, T. R., Glasser, S. W., Whitsett, J. A., Jenkins, N. A., Copeland, N. G. Chromosomal localization of three pulmonary surfactant protein genes in the mouse. Genomics 12: 388-393, 1992.
3. Wood, S., Yaremko, M. L., Schertzer, M., Kelemen, P. R., Minna, J., Westbrook, C. A. Mapping of the pulmonary surfactant SP5 (SFTP2) locus to 8p21 and characterization of a microsatellite repeat marker that shows frequent loss of heterozygosity in human carcinomas. Genomics 24: 597-600, 1994.