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SFTPD Rabbit pAb

Catalog # AP96297

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P50404
Other Accession	P50404
Reactivity	Human
Predicted	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37688
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse SFTPD
Epitope Specificity	301-400/374
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted, extracellular space, extracellular matrix. Secreted, extracellular space, surface film.
SIMILARITY	Belongs to the SFTPD family. Contains 1 C-type lectin domain. Contains 1 collagen-like domain.
SUBUNIT	Oligomeric complex of 4 set of homotrimers.
Post-translational modifications	The N-terminus is blocked. Hydroxylation on proline residues within the sequence motif, GXPG, is most likely to be 4-hydroxy as this fits the requirement for 4-hydroxylation in vertebrates.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Surfactant protein D contributes to the lung's defense against inhaled microorganisms. It's a calcium ion dependent carbohydrate binding protein and is structurally similar to other C type mammalian lectins, such as conglutinin and SPA. It has a molecular size of approximately 37-43kDa in its reduced state, 620kDa in non dissociating conditions. Surfactant protein D enhances the production of oxygen radicals by rat alveolar macrophages and regulates some actions of SPA, which is the most abundant surfactant protein. Surfactant protein D is synthesized and secreted by alveolar epithelial type II cells.

Additional Information

Gene ID	20390
Other Names	COLEC7; PSP-D; SFTP4; SP-D; Sfpd; SPD; SFTPD_HUMAN; SFTPD; Collectin-7; Lung surfactant protein D; PSPD; SFTPD_MOUSE; SFTPD_RAT; CP4; surfactant protein D; surfactant, pulmonary-associated protein D
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=2ug

	/Test
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	Sftpd
Synonyms	Sftp4
Function	Contributes to the lung's defense against inhaled microorganisms, organic antigens and toxins. Interacts with compounds such as bacterial lipopolysaccharides, oligosaccharides and fatty acids and modulates leukocyte action in immune response. May participate in the extracellular reorganization or turnover of pulmonary surfactant. Binds strongly maltose residues and to a lesser extent other alpha- glucosyl moieties.
Cellular Location	Secreted, extracellular space, extracellular matrix. Secreted, extracellular space, surface film

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