

Pulmonary Surfactant Associated Protein A1 (SFTPA1) Protein | SFTPA1 protein

Eukaryotic Pulmonary Surfactant Associated Protein A1 (SFTPA1)

CATALOG # AAA21173	HOST 293F cell	REACTIVITY Homo sapiens (Human)	APPLICATIONS SDS-Page, Western Blot
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PRODUCT SYNONYMS

Pulmonary Surfactant Associated Protein A1 (SFTPA1); Eukaryotic Pulmonary Surfactant Associated Protein A1 (SFTPA1); Pulmonary Surfactant Associated Protein A1; PRL; SFTPA; PSAP; PSPA; SFTP; SPA; COLEC4; PSP-A; SFTP1; SFTPA1B; SP-A1; Collectin-4; Alveolar proteinosis protein; 35 kDa pulmonary surfactant-associated protein; Surfactant Associated Protein A; SFTPA1 protein

PRODUCT SPECIFICATIONS

Host	293F cell
Reactivity	Homo sapiens (Human)
Purity/Purification	> 90%
Form/Format	PBS, pH7.4, containing 5% Trehalose .
Concentration	Original Concentration: 200ug/mL (varies by lot)
Applicable Applications for SFTPA1 protein	Positive Control, Immunogen, SDS-PAGE, WB (Western Blot)
Application Notes	(May be suitable for use in other assays to be determined by the end user.)
Source	Eukaryotic expression
Residues	Glu21~Phe248
Tags	N-terminal His Tag
Subcellular Location	Secreted
Traits	Freeze-dried powder
Predicted isoelectric point	4.6
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



SDS-PAGE



Gene Sequencing (Extract)



Sequence Information

ADDITIONAL INFORMATION

Product Categories/Family for SFTP A1 protein	Infection immunity; Pulmonology; Eukaryotic proteins/EP
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NCBI AND UNIPROT INFORMATION

NCBI GI #	109731624
NCBI GeneID	6435
UniProt Accession #	Q8IWL2; P07714; Q14DV4; Q5RIR5; Q5RIR7; A8K3T8; B7ZW50; E3VLD8; E3VLD9; E3VLE0; E3VLE1; G5E9J3
Molecular Weight	Predicted Molecular Mass: 25.8kDa Accurate Molecular Mass: 38kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	Surfactant protein A1B
NCBI Official Synonym Full Names	surfactant protein A1B
NCBI Official Symbol	SFTP A1B
NCBI Official Synonym Symbols	PSAP; PSPA; SFTP1; SFTP A1; AC068139.6
NCBI Protein Information	surfactant protein A1B; pulmonary surfactant apoprotein; surfactant, pulmonary-associated protein A1; surfactant, pulmonary-associated protein A1B
UniProt Protein Name	Pulmonary surfactant-associated protein A1
UniProt Gene Name	SFTP A1
UniProt Synonym Gene Names	COLEC4; PSAP; SFTP1; SFTP A; SFTP A1B; PSP-A; PSPA; SP-A; SP-A1
UniProt Entry Name	SFTA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.