

Recombinant Human SFTPA1 protein, GST-tagged

Cat. No. SFTPA1-14H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SFTPA1(83 a.a. - 199 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	83-199 a.a.
Description	This gene encodes a lung surfactant protein that is a member of a subfamily of C-type lectins called collectins. The encoded protein binds specific carbohydrate moieties found on lipids and on the surface of microorganisms. This protein plays an essential role in surfactant homeostasis and in the defense against respiratory pathogens. Mutations in this gene are associated with idiopathic pulmonary fibrosis. Alternate splicing results in multiple transcript variants.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	38.61 kDa
AA Sequence	MTVGEKVFSSNGQSITFDAIQEACARAGGRIAVPRNPEENEAIASFVKKYNTYAYVG LTEGPSPGDFRYS DGTPV NYTNWYRGEPAGRGKEQCVEMYTDGQWNDNRNCLYS RLTICEF
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);

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Antibody Production; Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name [SFTPA1 surfactant protein A1 \[Homo sapiens \]](#)

Official Symbol [SFTPA1](#)

Synonyms

SFTPA1; surfactant protein A1; SFTP1, surfactant, pulmonary associated protein A1; pulmonary surfactant-associated protein A1; COLEC4; SP A; SP A1; surfactant; pulmonary associated protein A1A; collectin-4; surfactant protein A1B; alveolar proteinosis protein; surfactant protein A1 variant AD 6A; surfactant protein A1 variant AD 6A2; surfactant protein A1 variant AD 6A3; surfactant protein A1 variant AD 6A4; surfactant protein A1 variant ACD 6A2; surfactant protein A1 variant ACD 6A3; surfactant protein A1 variant ACD 6A4; surfactant protein A1 variant ABD 6A2; surfactant protein A1 variant ABD 6A3; surfactant protein A1 variant ABD 6A4; surfactant, pulmonary-associated protein A1A; surfactant, pulmonary-associated protein A1B; 35 kDa pulmonary surfactant-associated protein; SPA; PSAP; PSPA; SP-A; SPA1; PSP-A; SFTP1; SP-A1; SFTPA1B; FLJ50593; FLJ51913; FLJ61144; FLJ77898; FLJ79095; FLJ99559; MGC133365; MGC198590;

Gene ID [653509](#)

mRNA Refseq [NM_001164646](#)

Protein Refseq [NP_001158118](#)

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MIM	178630
UniProt ID	Q8IWL2
Chromosome Location	10q22.3
Pathway	FOXA1 transcription factor network, organism-specific biosystem; Pertussis, organism-specific biosystem; Pertussis, conserved biosystem; Phagosome, organism-specific biosystem; Phagosome, conserved biosystem;
Function	binding; lipid transporter activity; sugar binding;

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