

RPES8363

Product Information

Product SKU:	RPES8363	Expression Host:	Mammalian	Size:	20µg
Tag:	C-Fc	Reactivity:	Human	Accession:	Q8IWL2

Additional Information

Calculated MW:	49.9 kDa	Observed MW:	60 kDa
Sequence:	Glu21-Phe248		

Protein Information

**Background:** Surfactant protein A (SFTPA1) , a member of the collagenous lectin (collectin) family , was first described as a major constituent of lung surfactant but has recently also been found in the female genital tract. Various microorganisms colonize this area and may cause intrauterine infection or trigger preterm labor. The Human SFTPA1 and SFTPA2 genes encode SP-A1 and SP-2 proteins , and each gene has been identified with numerous genetic variants. SP-A1 and SP-A2 differentially enhance bacterial phagocytosis. Sex differences have been observed in pulmonary disease and survival of wild type and SP-A knockout (KO) mice. SP-A interacts and regulates many of the functions of alveolar macrophages (AM). It is shown that SP-A variants differ in their ability to regulate the AM miRNome in response to oxidative stress (OxS).

**Synonyms:** MGC, SFTP, Pulmonary surfactant-associated protein A, COLEC, Collectin, SFTPA1, COLEC4, PSAP, PSP-A, PSPA, SFTP1, SFTPA1B, SP-A, SP-A1, SPA, SPA1, MGC133365, Collectin-4, SFTPA, Pulmonary surfactant-associated protein A1, 35 kDa pulmonary surfactant-associated protein, Alveolar proteinosis protein, 35 kDa pulmonary surfactant associated protein, 35-KD, Collectin 4, FLJ50593, FLJ51913, FLJ61144, FLJ77898, FLJ79095, FLJ99559, MGC198590, OTTHUMP00000019928, OTTHUMP00000019929, OTTHUMP00000019930, OTTHUMP00000019931, PSP A, pulmonary 1, pulmonary associated protein A1A, pulmonary associated protein A1B, pulmonary surfactant apoprotein PSP-A, pulmonary surfactant -associated protein,

pulmonary surfactant associated protein A1, SFTA1, SP A, SP A1, surfactant, surfactant protein A1, surfactant protein A1 variant AB'D' 6A2, surfactant protein A1 variant AB'D' 6A3, surfactant protein A1 variant AB'D' 6A4, surfactant protein A1 variant ACD' 6A2, surfactant protein A1 variant ACD' 6A3, surfactant protein A1 variant ACD' 6A4, 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 A1B, surfactant-associated protein

<b>Endotoxin:</b>	< 1.0 EU/mg of the protein as determined by the LAL method
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
<b>Purity:</b>	> 90% as determined by reducing SDS-PAGE.
<b>Bio-Activity:</b>	Not validated for activity
<b>Storage:</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.