

Product datasheet for **TP303246**

SFTPC (NM_003018) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human surfactant protein C (SFTPC), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC203246 protein sequence Red =Cloning site Green =Tags(s) |
| | MDVGSKEVLMESPPDYSAAPRGRFGIPCCPVHLKRLIVVVVVVIVGALLMGLHMSQKHEMVLV MSIGAPEAQQLALSEHLVTTATFSIGSTGLWYDYQQLLIAYKPAPGTCCYIMKIAPESIPSLEALNRK VHNFQMECSLQAKPAVPTSKLGQAEGRDAGSAPSGGDP AFLGMAVNTLCGEVPLYYI TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag: | C-Myc/DDK |
| Predicted MW: | 20.8 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | <u>NP_003009</u> |
| Locus ID: | 6440 |
| UniProt ID: | <u>P11686</u> , <u>A0A0S2Z4Q0</u> |
| RefSeq Size: | 989 |



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Cytogenetics: 8p21.3

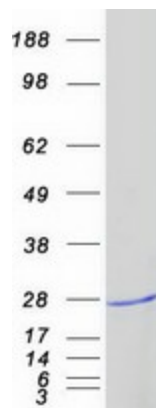
RefSeq ORF: 591

Synonyms: BRICD6; PSP-C; SFTP2; SMDP2; SP-C; SP5

Summary: This gene encodes the pulmonary-associated surfactant protein C (SPC), an extremely hydrophobic surfactant protein essential for lung function and homeostasis after birth. Pulmonary surfactant is a surface-active lipoprotein complex composed of 90% lipids and 10% proteins which include plasma proteins and apolipoproteins SPA, SPB, SPC and SPD. The surfactant is secreted by the alveolar cells of the lung and maintains the stability of pulmonary tissue by reducing the surface tension of fluids that coat the lung. Multiple mutations in this gene have been identified, which cause pulmonary surfactant metabolism dysfunction type 2, also called pulmonary alveolar proteinosis due to surfactant protein C deficiency, and are associated with interstitial lung disease in older infants, children, and adults. Alternatively spliced transcript variants encoding different protein isoforms have been identified.[provided by RefSeq, Feb 2010]

Protein Families: Secreted Protein, Transmembrane

Product images:



Coomassie blue staining of purified SFTPC protein (Cat# TP303246). The protein was produced from HEK293T cells transfected with SFTPC cDNA clone (Cat# [RC203246]) using MegaTran 2.0 (Cat# [TT210002]).