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Product Information

MemDX™ Membrane Protein Human SFTPC (Surfactant protein C) for Antibody Discovery

Cat. No.: **MP0751J**
This product is for research use only and is not intended for diagnostic use.

This product is a 20.8 kDa Human SFTPC membrane protein expressed in HEK293T. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
SFTPC

Protein Length
Full-length

Protein Class
Secreted Protein, Transmembrane

Molecular Weight
20.8 kDa

Sequence
MDVGSKEVLMESPPDYSAAPRGRFGIPCCPVHLKRLLIVVVVVVLIVVVIVGALLMGLHMSQKHTEMVLE
MSIGAPEAQQRLALSEHLVTTATFSIGSTGLVVYDYQQLLIAYKPAPGTCCYIMKIAPESIPSLEALNRK
VHNFQMECSLQAKPAVPTSKLGQAEGRDAGSAPSGGDPAFLGMAVNTLCGEVPLYYI

Product Description

Expression Systems
HEK293T

Tag
C-Myc/DDK

Form
Liquid

Purification
Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

SFTPC

Full Name

Surfactant protein C

Introduction

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.

Alternative Names

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

Gene ID

6440

UniProt ID

P11686

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