DATASHEET

Prosurfactant Protein C Rabbit Monoclonal Antibody(ARA515)

CAT. NO. ARA5840

KEY FEATURES

Target	Prosurfactant Protein C	**Source/Host**	Rabbit
Reactivity	Human, Mouse, Rat	**Clonality**	Monoclonal
Applications	WB,IHC,IF/ICC,FC	**Conjugation**	Unconjugated
Isotype	IgG	**Storage**	at -20°C

BACKGROUND

Surfactant protein C (SP-C), encoded by the SFTPC gene, is one of the hydrophobic pulmonary surfactant proteins lining the alveolar surface. SFTPC is synthesized in alveolar type II epithelial cells as a 197-residue proprotein (proSP-C) comprising an N-terminal propeptide domain and a C-terminal BRICHOS domain, and is proteolytically processed into the mature, extremely hydrophobic 35-amino-acid SP-C peptide. Mature SP-C, together with surfactant proteins A, B and D and surfactant phospholipids, reduces surface tension at the air-liquid interface and prevents alveolar collapse at end expiration. Mutations in SFTPC cause surfactant dysfunction and are associated with interstitial lung disease in children and adults as well as with neonatal respiratory distress syndrome.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:2000 - 1:5000
IHC	1:1000 - 1:3000
IF/ICC	1:1000 - 1:2000
FC	1:500 - 1:1000

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Prosurfactant Protein C Rabbit Monoclonal Antibody(ARA515) for WB, IHC, IF, FC
Specificity	Reacts with Prosurfactant Protein C (SFTPC) in WB, IHC, IF and FC applications. Shows reactivity with human, mouse and rat samples.
Immunogen	Synthetic peptide within human Prosurfactant Protein C aa 1-50.
Molecular Weight	Predicted: 21 kDa; Observed: 21 kDa
Purification	Protein A affinity purified.
Isotype	IgG
Form/Buffer	Liquid in 1xPBS (pH 7.4) with 0.1% BSA, 40% glycerol and 0.2% Proclean 950.
Subcellular Location	Secreted, extracellular space, surface film.
Alternative Names	SP-C, SPC, SP5, PSP-C, PSPC, SMDP2, SFTP2, BRICD6, Surfactant protein C
Gene Symbol	SFTPC
Entrez Gene	6440
SwissProt	P11686

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

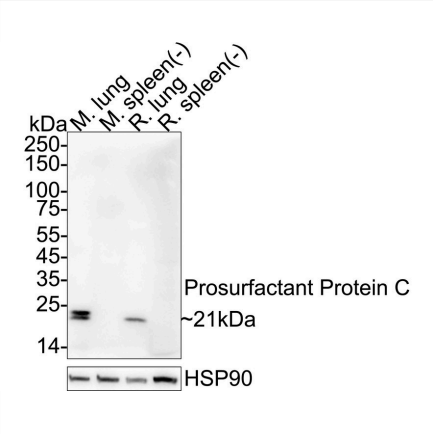
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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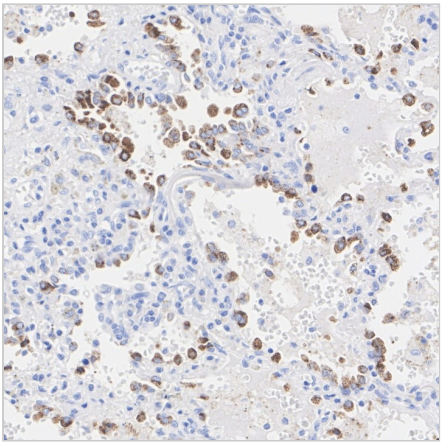
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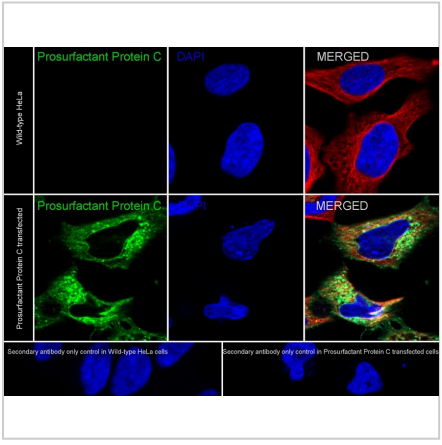
DATA



Western blot analysis of Prosurfactant Protein C on different lysates with Prosurfactant Protein C Rabbit Monoclonal Antibody(ARA515) at 1/5,000 dilution. Lane 1: Mouse lung tissue lysate; Lane 2: Mouse spleen tissue lysate (negative); Lane 3: Rat lung tissue lysate; Lane 4: Rat spleen tissue lysate (negative). Lysates/proteins at 40 µg/lane.



Immunohistochemical analysis of paraffin-embedded human lung tissue with Prosurfactant Protein C Rabbit Monoclonal Antibody(ARA515) at 1/3,000 dilution. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

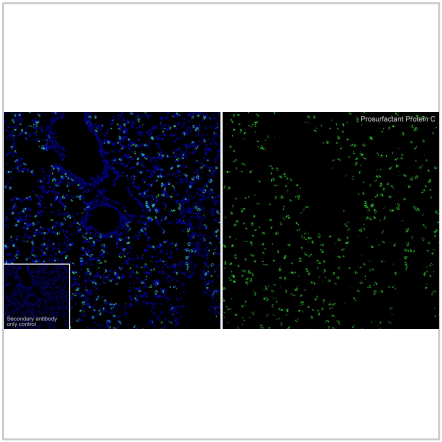


Immunocytochemistry analysis of HeLa cells transfected with or without Prosurfactant Protein C using Prosurfactant Protein C Rabbit Monoclonal Antibody(ARA515) at 1/2,000 dilution.

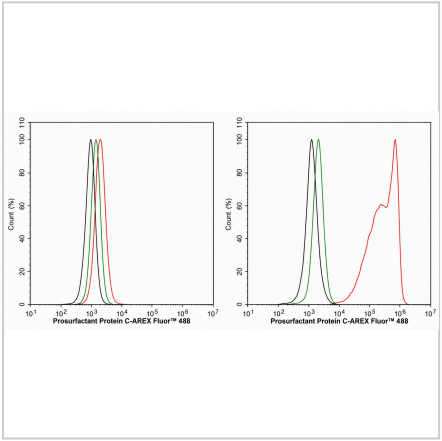
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Immunofluorescence analysis of paraffin-embedded mouse lung tissue section with Prosurfactant Protein C Rabbit Monoclonal Antibody(ARA515) at 1/1,000 dilution.



Flow cytometric analysis of 293T cells (left) and 293T cells transfected with Prosurfactant Protein C (right) with Prosurfactant Protein C Rabbit Monoclonal Antibody(ARA515) at 1/1,000 compared with Rabbit IgG Isotype Control.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com