abcam

Product datasheet

Anti-Prosurfactant Protein C antibody [EPR21012-112] - BSA and Azide free (Detector) ab259668

Recombinant RabMAb

2 Images

Overview

Product name	Anti-Prosurfactant Protein C antibody [EPR21012-112] - BSA and Azide free (Detector)
Description	Rabbit monoclonal [EPR21012-112] to Prosurfactant Protein C - BSA and Azide free (Detector)
Host species	Rabbit
Tested applications	**Suitable for:** Sandwich ELISA
Species reactivity	**Reacts with:** Mouse
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
General notes	ab259668 is a BSA and Azide Free antibody supplied in an unconjugated format and it is suitable for sandwich ELISAs to quantify Mouse SFTPC. The recommended pair for sandwich ELISA is: Capture: **ab259667**, Mouse SFTPC Capture Antibody (unconjugated) Detector: ab259668, Mouse SFTPC Detector Antibody (unconjugated) The reference range value is 117.19 - 7500 pg/ml. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. The recommended antibody orientation is based on internal optimization for ELISA-based assays. Antibody orientation is assay dependent and needs to be optimized for each assay type. Please note that the range provided for this antibody is only an estimation based on the performance of the product using the recommended antibody pair. Performance of the antibody pair will depend on the specific characteristics of your assay. We guarantee the product works in sandwich ELISA, but we do not guarantee the sensitivity or dynamic range of the antibody in your assay. This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information **see here**.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21012-112
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab259668 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Sandwich ELISA		Use at an assay dependent concentration. Can be paired for Sandwich ELISA with **Rabbit monoclonal [EPR21012-72] to Prosurfactant Protein C - BSA and Azide free (Capture) (ab259667)**.

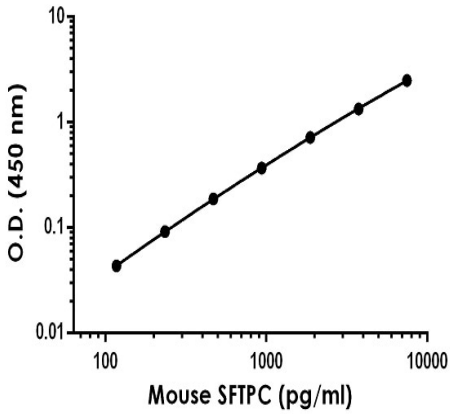
Target

Function Pulmonary surfactant associated proteins promote alveolar stability by lowering the surface tension at the air-liquid interface in the peripheral air spaces.

Involvement in disease Defects in SFTPC are the cause of pulmonary surfactant metabolism dysfunction type 2 (SMDP2) [MIM:610913]; also called pulmonary alveolar proteinosis due to surfactant protein C deficiency. A rare disease associated with progressive respiratory insufficiency and lung disease with a variable clinical course, due to impaired surfactant homeostasis. It is characterized by alveolar filling with floccular material that stains positive using the periodic acid-Schiff method and is derived from surfactant phospholipids and protein components. Excessive lipoproteins accumulation in the alveoli results in severe respiratory distress.
Genetic variations in SFTPC are a cause of susceptibility to respiratory distress syndrome in premature infants (RDS) [MIM:267450]; also known as RDS in prematurity. RDS is a lung disease affecting usually premature newborn infants. It is characterized by deficient gas exchange, diffuse

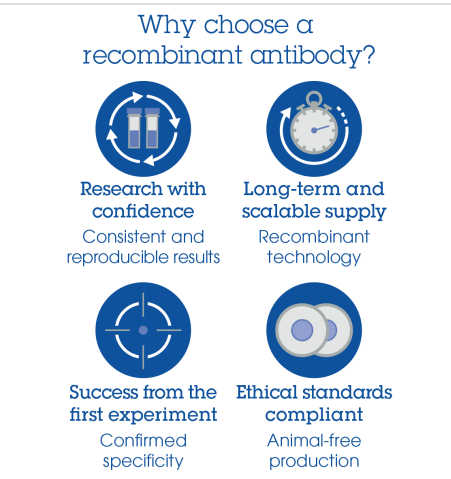
	atelectasis, high-permeability lung edema and fibrin-rich alveolar deposits called 'hyaline membranes'.
Sequence similarities	Contains 1 BRICHOS domain.
Cellular localization	Secreted > extracellular space > surface film.

Images



Representative standard curve from corresponding SimpleStep ELISA® Kit (**ab252366**).

Sandwich ELISA - Anti-Prosurfactant Protein C antibody [EPR21012-112] - BSA and Azide free (Detector) (ab259668)



Anti-Prosurfactant Protein C antibody [EPR21012-112] - BSA and Azide free (Detector) (ab259668)

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