abcam

ab240192

Anti-SFT antibody [EPR13000(B)] - BSA and Azide free

Recombinant | RabMAb | KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR13000(B)
Purification technique	Affinity purification Protein A
Concentration	0.982 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-

Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Expected

Species	Mouse, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information UBE2D1

Function Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins (PubMed:22496338). In vitro catalyzes 'Lys-48'-linked polyubiquitination (PubMed:20061386). Mediates the selective degradation of short-lived and abnormal proteins. Functions in the E6/E6-AP-induced ubiquitination of p53/TP53. Mediates ubiquitination of PEX5 and auto-ubiquitination of STUB1, TRAF6 and TRIM63/MURF1 (PubMed:18042044, PubMed:18359941). Ubiquitinates STUB1-associated HSP90AB1 in vitro (PubMed:18042044). Lacks inherent specificity for any particular lysine residue of ubiquitin (PubMed:18042044). Essential for viral activation of IRF3 (PubMed:19854139). Mediates polyubiquitination of CYP3A4 (PubMed:19103148).

Storage

Shipped at conditions Blue Ice

Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab240192 is the carrier-free version of ab176561.

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

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The protein SFT also known as surfactant protein or SP plays a role in reducing surface tension in the lungs. It's a glycoprotein with a known mass of around 32 kDa. SFT mainly gets expressed in the alveolar type II cells in the lungs where it's secreted into the lung's extracellular lining. Its primary function involves aiding in lung stability and preventing alveolar collapse during respiration.
Biological function summary	Surfactant proteins contribute to innate immune defense and lung homeostasis. SFT is a component of the surfactant complex which includes other proteins and lipids. This protein acts at the air-liquid interface in the alveoli and engages in host

	defense functions. SFT activates alveolar macrophages and binds to a range of pathogens enhancing their clearance from the respiratory tract. It helps regulate inflammatory responses and maintain the balance of surfactant components in the lungs.
Pathways	SFT plays an integral role in the pulmonary surfactant metabolism pathway and the immune response pathway. In the pulmonary surfactant metabolism pathway it interacts with proteins like ABCA3 and lipids like phosphatidylcholine to ensure proper surfactant composition and recycling. In the immune response pathway SFT partners with complement proteins and defensins supporting pathogen clearance and preventing lung infections.
Associated diseases and disorders	SFT relates primarily to respiratory distress syndrome (RDS) and pulmonary alveolar proteinosis (PAP). In RDS an insufficient amount or dysfunction of surfactant proteins including SFT leads to alveolar collapse and impaired gas exchange. In PAP the protein's accumulation affects surfactant homeostasis disrupting lung function. These diseases tie SFT to other proteins like GM-CSF and ABCA3 which influence surfactant production and regulation.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

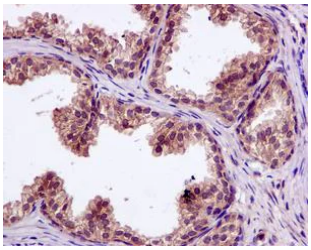
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

4 product images

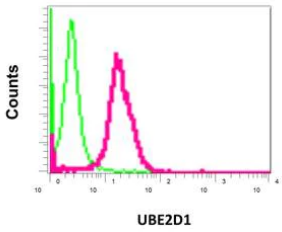


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SFT antibody [EPR13000(B)] - BSA and Azide free (ab240192)

SFT Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SFT antibody

Immunohistochemical analysis of formalin-fixed, paraffin-embedded, Human prostate tissue labeling SFT with ab176561 at a 1/50 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab176561).

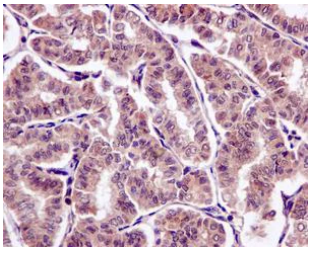
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-SFT antibody [EPR13000(B)] - BSA and Azide free (ab240192)

SFT Flow Cytometry (Intracellular) staining using rabbit Anti-SFT antibody

Intracellular Flow Cytometry analysis of permeabilized Jurkat cells labeling SFT (red) with ab176561 at a 1/10 dilution, or negative control rabbit IgG (green)
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab176561).

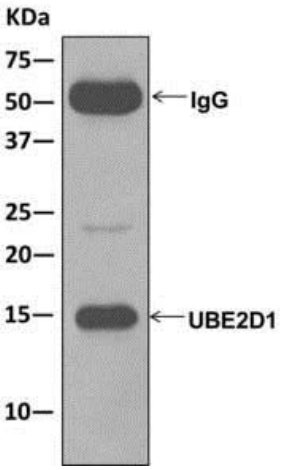


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SFT antibody [EPR13000(B)] - BSA and Azide free (ab240192)

SFT Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SFT antibody

Immunohistochemical analysis of formalin-fixed, paraffin-embedded, Human thyroid gland carcinoma tissue labeling SFT with ab176561 at a 1/50 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab176561).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-SFT antibody [EPR13000(B)] - BSA and Azide free (ab240192)

Western blot analysis on immunoprecipitation pellet from Human skeletal muscle lysate labeling SFT with ab176561 at 1/10 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab176561).

All lanes:
Immunoprecipitation - Anti-SFT antibody [EPR13000(B)] (ab176561)

Developed using the ECL technique.

Predicted band size: 17 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.