abcam

Product datasheet

Anti-FOXF1 antibody [EPR7971] ab168383

Recombinant   RabMAb

5 References   **4 Images**

Overview

Product name	Anti-FOXF1 antibody [EPR7971]
Description	Rabbit monoclonal [EPR7971] to FOXF1
Host species	Rabbit
Specificity	This reagent is not recommended for mouse ICC/IF.
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, ICC/IF **Unsuitable for:** IHC-P or IP
Species reactivity	**Reacts with:** Human **Does not react with:** Mouse, Rat
Immunogen	Synthetic peptide within Human FOXF1. The exact sequence is proprietary. Database link: **Q12946**
Positive control	Flow Cyt (intra): HeLa cells; ICC/IF: HeLa cells; WB: HeLa, and Human lung lysates.
General notes	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**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

Purity	Protein A purified	
Clonality	Monoclonal	
Clone number	EPR7971	
Isotype	IgG	

Applications

Our **Abpromise guarantee** covers the use of ab168383 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
Flow Cyt (Intra)		1/70 - 1/500. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/5000. Predicted molecular weight: 40 kDa.
ICC/IF		1/250 - 1/500.

Application notes Is unsuitable for IHC-P or IP.

Target

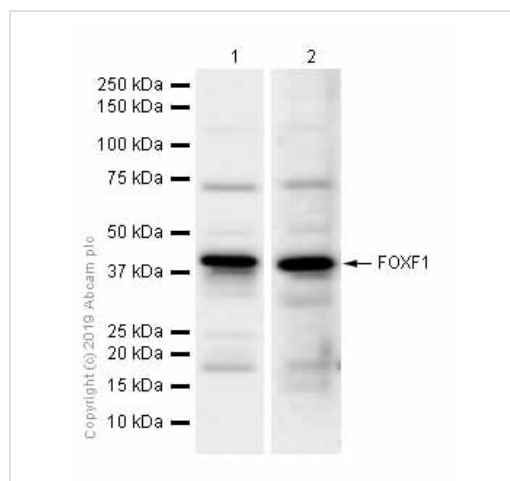|	
Function	Probable transcription activator for a number of lung-specific genes.
Tissue specificity	Lung and placenta.
Involvement in disease	Defects in FOXF1 are the cause of alveolar capillary dysplasia with misalignment of pulmonary veins (ACDMPV) [MIM:265380]. ACDMPV is a rare malformation due to abnormal development of the capillary vascular system in the lungs. Histologically, it is characterized by failure of formation and ingrowth of alveolar capillaries, medial muscular thickening of small pulmonary arterioles with muscularization of the intraacinar arterioles, thickened alveolar walls, and anomalously situated pulmonary veins running alongside pulmonary arterioles and sharing the same adventitial sheath. Less common features include a reduced number of alveoli and a patchy distribution of the histopathologic changes. Affected infants present with respiratory distress and the disease is fatal within the newborn period. Additional features include multiple congenital anomalies affecting the cardiovascular, gastrointestinal, genitourinary, and musculoskeletal systems, as well as disruption of the normal right-left asymmetry of intrathoracic or intraabdominal organs. ACDMPV is a rare cause of persistent pulmonary hypertension of the newborn, an abnormal physiologic state caused by failure of transition of the pulmonary circulation from the high pulmonary vascular resistance of the fetus to the low pulmonary vascular resistance of the newborn.
Sequence similarities	Contains 1 fork-head DNA-binding domain.
Domain	Activation domains C-terminal of (and distinct from) the forkhead domains are necessary for transcriptional activation.
Cellular localization	Nucleus.

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Images

Western blot - Anti-FOXF1 antibody [EPR7971] (ab168383)

All lanes : Anti-FOXF1 antibody [EPR7971] (ab168383) at 1/5000 dilution (Purified)

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

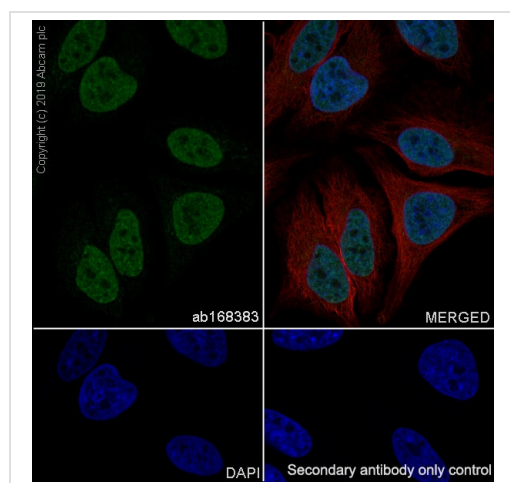**Lane 2 :** Human lung lysates

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution
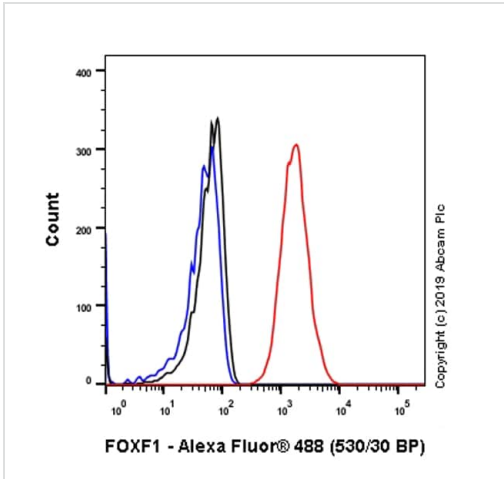
Predicted band size: 40 kDa
Observed band size: 40 kDa

This antibody detects high background

Immunocytochemistry/ Immunofluorescence - Anti-FOXF1 antibody [EPR7971] (ab168383)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling FOXF1 with purified ab168383 at 1:250 dilution (2.7 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling FOXF1 with purified ab168383 at 1/70 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

Flow Cytometry (Intracellular) - Anti-FOXF1 antibody [EPR7971] (ab168383)

Anti-FOXF1 antibody [EPR7971] (ab168383)

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