abcam

ab314093

# Anti-FOXQ1 antibody [BLR230K] - BSA free

Recombinant

## Key facts

| | |
|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Storage buffer** | pH: 7.8 - 8.6 Preservative: 0.09% Sodium azide Constituents: 98% Borate buffered saline |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | Synthetic Peptide within Human FOXQ1 aa 350 to C-terminus. The exact immunogen used to generate this antibody is proprietary information. Database link Q9C009 |
| **Clone number** | BLR230K |

## Reactivity data

## Flow Cyt

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse |

| | |
|---|---|
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## ICC

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Human, Mouse |
| **Dilution info** | - |
| **Notes** | - |

## IP

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | Use at an assay dependent concentration. |

| | |
|---|---|
| **Notes** | - |

## WB

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## Target data

See full target information FOXQ1

| | |
|---|---|
| **Function** | Plays a role in hair follicle differentiation. |

## Storage

| | |
|---|---|
| **Shipped at conditions** | Blue Ice |
| **Appropriate short-term storage duration** | Up to 12 months |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |

## Notes

**REACH authorisation**
Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances.

It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

## Supplementary info

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

| | |
|---|---|
| **Activity summary** | FOXQ1 also known as Forkhead box Q1 is a transcription factor that regulates gene expression. Its molecular weight is approximately 44 kDa. FOXQ1 expression occurs in various tissues including the lungs intestines and certain parts of the brain. This protein belongs to the Forkhead box (FOX) family which plays key roles in numerous cellular processes. These transcription factors share a similar DNA-binding domain enabling binding to specific sequences and control of target gene expression. |
| **Biological function summary** | FOXQ1 influences cell proliferation differentiation and survival. It does not form part of a larger complex though it interacts with other proteins for its function. In particular FOXQ1 can modulate epithelial-mesenchymal transition (EMT) an essential process in development and cancer metastasis. Through its role in EMT FOXQ1 impacts cellular plasticity and tumor progression thereby influencing how cells respond to growth signals. |
| **Pathways** | Connections involving FOXQ1 include the TGF-beta signaling and Wnt pathways. These pathways are critical in controlling cellular growth and differentiation functions. Within these pathways FOXQ1 interacts with proteins such as SMAD and beta-catenin which further transmit signals to the nucleus altering gene expression patterns. Such interactions position FOXQ1 as a pivotal component in facilitating cellular responses to environmental stimuli. |
| **Associated diseases and disorders** | FOXQ1 has implications in cancer and fibrotic diseases. In cancers such as colorectal and breast cancer abnormal FOXQ1 expression can lead to more aggressive tumor phenotypes and poor prognosis. FOXQ1 associates with proteins like E-cadherin and Vimentin during cancer progression influencing tumor invasiveness and metastasis. In fibrosis FOXQ1 dysregulation affects tissue repair by modifying fibroblast activity and matrix deposition showcasing its role in pathological tissue remodeling. |

## 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.

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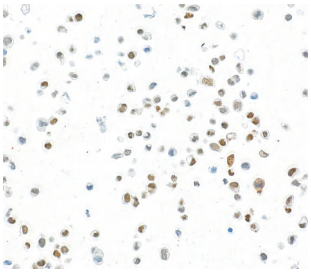
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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:
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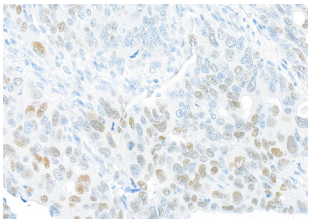
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## 6 product images



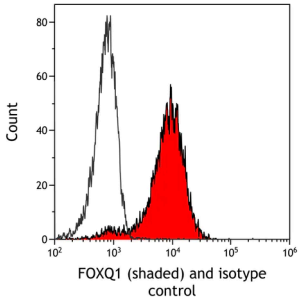
### Immunocytochemistry - Anti-FOXQ1 antibody [BLR230K] - BSA free (ab314093)

Detection of human FOXQ1 by immunocytochemistry Sample: FFPE section of NCI-H520 cells. Antibody: Rabbit anti-FOXQ1 recombinant monoclonal antibody [BLR230K] (A700-230). Secondary: HRP-conjugated goat antirabbit IgG.



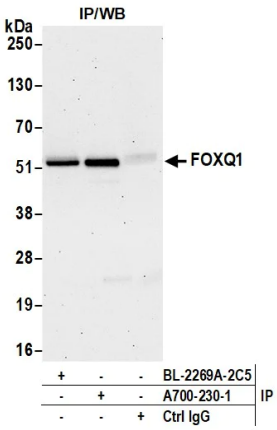
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXQ1 antibody [BLR230K] - BSA free (ab314093)

Detection of human FOXQ1 by immunohistochemistry. Sample: FFPE section of human colon carcinoma. Antibody: Rabbit anti-FOXQ1 recombinant monoclonal antibody [BLR230K] (A700-230). Secondary: HRP-conjugated goat anti-rabbit IgG.




### Flow Cytometry - Anti-FOXQ1 antibody [BLR230K] - BSA free (ab314093)

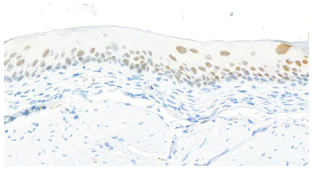
Detection of human FOXQ1 (shaded) in HT-29 cells by flow cytometry. Antibody: Rabbit anti-FOXQ1 recombinant monoclonal antibody [BLR230K] (A700-230) or isotype control (unshaded). Secondary: DyLight® 650-conjugated goat anti-rabbit IgG.




## Immunoprecipitation - Anti-FOXQ1 antibody [BLR230K] - BSA free (ab314093)

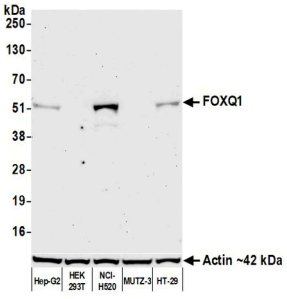
Detection of human FOXQ1 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from NCI-H520 cells prepared using NETN lysis buffer. Antibodies: Rabbit antiFOXQ1 recombinant monoclonal antibody [BLR230K] (A700-230) used for IP at 6 µl/mg lysate. FOXQ1 was also immunoprecipitated by a second antibody against a different epitope of FOXQ1 (BL-2269A-2C5). For blotting immunoprecipitated FOXQ1, A700-230 was used at 1:1000. Detection: Chemiluminescence with an exposure time of 30 seconds.
All lanes:
Immunoprecipitation - Anti-FOXQ1 antibody [BLR230K] - BSA free (ab314093) at 1/1000 dilution

All lanes:
NCI-H520 cells at 1 mg



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXQ1 antibody [BLR230K] - BSA free (ab314093)

Detection of mouse FOXQ1 by immunohistochemistry. Sample: FFPE section of mouse bladder. Antibody: Rabbit anti-FOXQ1 recombinant monoclonal antibody [BLR230K] (A700-230). Secondary: HRP-conjugated goat antirabbit IgG.




## Western blot - Anti-FOXQ1 antibody [BLR230K] - BSA free (ab314093)

Samples: Whole cell lysate (50 µg) from Hep-G2, HEK293T, NCIH520, MUTZ-3, and HT-29 cells prepared using NETN lysis buffer. Antibody: Rabbit anti-FOXQ1 recombinant monoclonal antibody [BLR230K] (A700-230) used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG. Detection: Chemiluminescence with an exposure time of 30 seconds. Lower Panel: Rabbit anti-Actin recombinant monoclonal antibody [BLR057F].
All lanes:
Western blot - Anti-FOXQ1 antibody [BLR230K] - BSA free (ab314093) at 1/1000 dilution

Lane 1:
Hep-G2 Whole cell lysate at 50 µg

Lane 2:
HEK293T Whole cell lysate at 50 µg

Lane 3:
NCI-H520 Whole cell lysate at 50 µg

Lane 4:
MUTZ-3 Whole cell lysate at 50 µg

Lane 5:
HT-29 Whole cell lysate at 50 µg

Secondary

All lanes:
HRP-conjugated goat anti-rabbit IgG

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