abcam

ab234077

Anti-FOXM1 antibody [6F11A8]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human FOXM1 aa 600 to C-terminus. The exact immunogen used to generate this antibody is proprietary information. Database link Q08050
Clone number	6F11A8
Purification technique	Affinity purification Protein G
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from tissue culture supernatant.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/200 - 1/400
Notes	-

Not recommended

Species	Recombinant fragment - Human
Dilution info	-
Notes	-

WB

Tested

Species	Recombinant fragment - Human
Dilution info	1/100 - 1/500
Notes	-

Species	Human
Dilution info	1/100 - 1/500
Notes	-

Target data

See full target information FOXM1

Function

Transcription factor regulating the expression of cell cycle genes essential for DNA replication and mitosis (PubMed:19160488, PubMed:20360045). Plays a role in the control of cell proliferation (PubMed:19160488). Also plays a role in DNA break repair, participating in the DNA damage checkpoint response (PubMed:17101782). Promotes transcription of PHB2 (PubMed:33754036).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

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

Activity summary	FOXM1 also known as Forkhead Box M1 functions mechanically as a transcription factor. This target plays an important role in the regulation of gene expression during the cell cycle. It is characterized by a molecular weight of approximately 85 kDa. FOXM1 is mainly expressed in actively proliferating cells including the liver lungs and thymus tissues linking it with processes involved in cellular growth and division.
Biological function summary	The transcription factor FOXM1 regulates the expression of genes important for DNA replication and mitosis. It forms part of a complex network with other proteins to initiate and sustain cell proliferation. This protein regulates key regulatory genes such as Cyclin B1 and Plk1 ensuring proper transition through various phases of the cell cycle. The presence of FOXM1 in normal tissues emphasizes its role in maintaining healthy cell division.
Pathways	FOXM1 is integral to the regulation of cell cycle pathways and interacts with proteins involved in the PI3K/AKT signaling pathway. This target coordinates with various proteins to facilitate progression through cell cycle checkpoints and modulate responses to growth signals. Proteins such as CDK1 and SKP2 operate alongside FOXM1 to advance cells from G2 phase into mitosis demonstrating its involvement in cell cycle control mechanics.
Associated diseases and disorders	FOXM1 shows significant association with cancer progression and metastasis. Overexpression of FOXM1 has been observed in colorectal and breast cancers indicating its potential as a therapeutic target. FOXM1 interacts with proteins like β-catenin in cancerous states influencing tumor growth and survival. Mutations and dysregulation of FOXM1 contribute to oncogenic processes further underlining its role in disease development.

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.

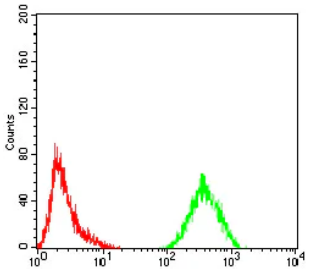
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In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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

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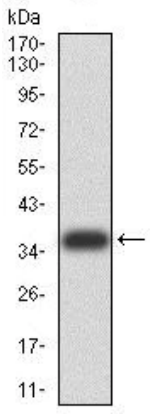
3 product images



Flow Cytometry - Anti-FOXM1 antibody [6F11A8] (ab234077)

FOXM1 Flow Cytometry staining using mouse Anti-FOXM1 antibody

Flow Cytometry analysis of HeLa (human epithelial cell line from cervix adenocarcinoma) cells, labeling FOXM1 with ab234077 at a 1/200 dilution (green) compared to a negative control (red).

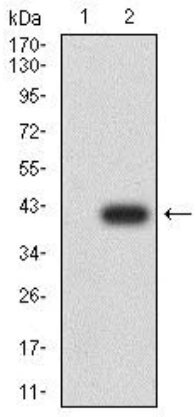


Western blot - Anti-FOXM1 antibody [6F11A8] (ab234077)

FOXM1 Western blot staining of Recombinant human FOXM1 (amino acids: 649-748) protein using mouse Anti-FOXM1 antibody

Expected recombinant MW is 36.6 kDa
All lanes:
Western blot - Anti-FOXM1 antibody [6F11A8] (ab234077) at 1/100 dilution

All lanes:
Recombinant human FOXM1 (amino acids: 649-748) protein



Western blot - Anti-FOXM1 antibody [6F11A8] (ab234077)

FOXM1 Western blot staining using mouse Anti-FOXM1 antibody

All lanes:
Western blot - Anti-FOXM1 antibody [6F11A8] (ab234077) at 1/100 dilution

Lane 1:
HEK-293 (human epithelial cell line from embryonic kidney) cell lysate

Lane 2:
FOXM1 (amino acids: 649-748)-hIgGFc transfected HEK-293 cell lysate

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