

Anti-FOXM1 Antibody [PSH10-30]

HA723197



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IP
Molecular Wt:	Predicted band size: 84 kDa
Clone number:	PSH10-30

Description: Forkhead box protein M1 is a protein that in humans is encoded by the FOXM1 gene. The protein encoded by this gene is a member of the FOX family of transcription factors. FOXM1 is known to play a key role in cell cycle progression where endogenous FOXM1 expression peaks at S and G2/M phases. FOXM1-null mouse embryos were neonatal lethal as a result of the development of polyploid cardiomyocytes and hepatocytes, highlighting the role of FOXM1 in mitotic division. More recently a study using transgenic/knockout mouse embryonic fibroblasts and human osteosarcoma cells (U2OS) has shown that FOXM1 regulates expression of a large array of G2/M-specific genes, such as Plk1, cyclin B2, Nek2 and CENPF, and plays an important role in maintenance of chromosomal segregation and genomic stability.

Immunogen: Recombinant protein within human FOXM1 aa 1-400.

Positive control: HeLa cell lysate, HEK-293 cell lysate, HT-29 cell lysate, LO2 cell lysate, Mouse testis tissue lysate.

Subcellular location: Nucleus.

Database links: SwissProt: Q08050 Human | O08696 Mouse

Recommended Dilutions:

WB	1:2,000
IP	1-2 μ g/sample

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

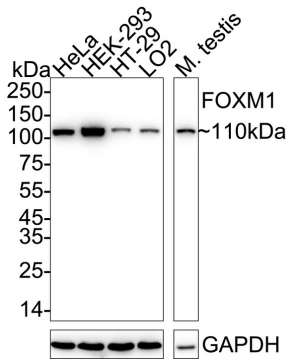
Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

Fig1: Western blot analysis of FOXM1 on different lysates with Rabbit anti-FOXM1 antibody (HA723197) at 1/2,000 dilution.



Lane 1: HeLa cell lysate (20 µg/Lane)
 Lane 2: HEK-293 cell lysate (20 µg/Lane)
 Lane 3: HT-29 cell lysate (20 µg/Lane)
 Lane 4: LO2 cell lysate (20 µg/Lane)
 Lane 5: Mouse testis tissue lysate (40 µg/Lane)

Predicted band size: 84 kDa
 Observed band size: 110 kDa

Exposure time: 20 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA723197) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

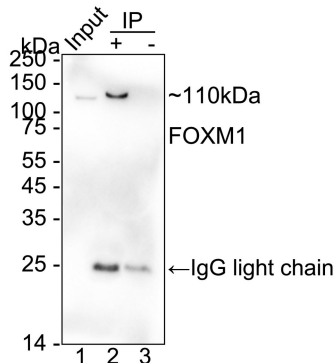


Fig2: FOXM1 was immunoprecipitated from 0.2 mg HeLa cell lysate with HA723197 at 2 µg/10 µl beads. Western blot was performed from the immunoprecipitate using HA723197 at 1/1,000 dilution. Mouse Anti-Rabbit IgG kappa light chain secondary antibody (M1208-2) at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: HeLa cell lysate (input)
 Lane 2: HA723197 IP in HeLa cell lysate
 Lane 3: Rabbit IgG instead of HA723197 in HeLa cell lysate

Blocking/Dilution buffer: 5% NFDM/TBST
 Exposure time: 4 seconds; ECL: K1801

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Khan MA et al. FOXM1: A small fox that makes more tracks for cancer progression and metastasis. *Semin Cancer Biol.* 2023 Jul
2. Zhang Z et al. FOXM1: Functional Roles of FOXM1 in Non-Malignant Diseases. *Biomolecules.* 2023 May

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