

# Anti-FOXM1 Antibody [PSH10-30] - BSA and Azide free

## HA751347



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse
<b>Applications:</b>	WB, IP
<b>Molecular Wt:</b>	Predicted band size: 84 kDa
<b>Clone number:</b>	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:**

<b>WB</b>	1:2,000
<b>IP</b>	1-2µg/sample

**Storage Buffer:** 1\*PBS (pH7.4).

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

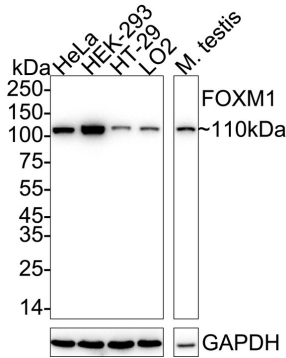
Technical:0086-571-89986345

Service mail:support@huabio.cn

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## Images

**Fig1:** Western blot analysis of FOXM1 on different lysates with Rabbit anti-FOXM1 antibody (HA751347) at 1/2,000 dilution.



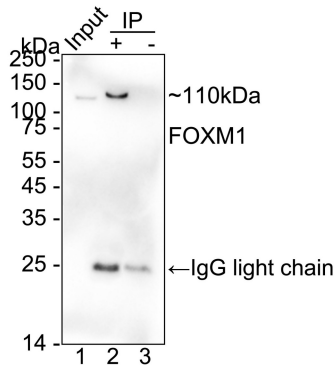
Lane 1: HeLa cell lysate (20  $\mu$ g/Lane)  
 Lane 2: HEK-293 cell lysate (20  $\mu$ g/Lane)  
 Lane 3: HT-29 cell lysate (20  $\mu$ g/Lane)  
 Lane 4: LO2 cell lysate (20  $\mu$ g/Lane)  
 Lane 5: Mouse testis tissue lysate (40  $\mu$ g/Lane)

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 (HA751347) 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 HA751347 at 2  $\mu$ g/10  $\mu$ l beads. Western blot was performed from the immunoprecipitate using HA751347 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: HA751347 IP in HeLa cell lysate  
 Lane 3: Rabbit IgG instead of HA751347 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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