

## Anti-FOXM1 Antibody (6G924)

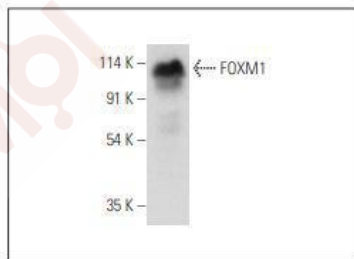
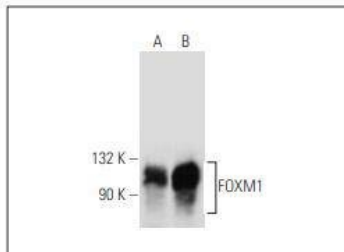
### Product Details

Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 83 kDa.
Clone:	6G924
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. A.Western blot analysis of FOXM1 expression in EGF treated HeLa (A) and U-2 OS (B) whole cell lysates.
2. Western blot analysis of FOXM1 expression in CCRF-CEM whole cell lysate.



Application: IF,IP,WB

Recommended WB: 1:100-1000; IP: 1-2  $\mu$ g per 100-500  $\mu$ g of total protein(1 ml of cell lysate)

### Properties

Stability & Storage: Store at 2°C-8°C for 12 months, do not freeze.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen:	Peptide
Uniprot ID:	Q08050
Synonyms:	Transcription factor Trident;MPM-2 reactive phosphoprotein 2;Forkhead box protein M1;FKHL16;HFH-11;Winged-helix factor from INS-1 cells;M-phase phosphoprotein 2;HFH 11;Forkhead-related protein FKHL16;Hepatocyte nuclear factor 3 forkhead homolog 11 (HFH-11;FKHL 16;FOXM 1;MPP 2

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### Research Background

The Fox family of transcription factors is a large group of proteins that share a common DNA binding domain termed a winged-helix or forkhead domain. FOXM1, also known as FKHL16, MPP2 or Trident, is primarily expressed in proliferating cells. The gene encoding human FOXM1 maps to chromosome 12p13. The transcription element that restricts FOXM1 expression to proliferating cells is located 300 bp upstream of the start codon. FOXM1 is most abundant in thymus, testis, small intestine and colon. Alternative splicing generates FOXM1A and FOXM1B isoforms that contain PEST regions involved in rapid protein degradation. A decrease in FOXM1 expression is associated with age-related defects in cellular proliferation. Conversely, an increase in FOXM1B expression in the livers of older transgenic mice restore hepatocyte DNA replication rates to the higher rate present in young livers. FOXM1B activates the transcription of cyclin B1, cyclin D1 and Cdc25B.

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