

FOXM1

Reactivity: Human Mouse Rat

Tested applications: WB IHC

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200

Calculated MW: 83kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human FOXM1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

μg/ml

Synonym:

FKHL16; FOXM1B; HFH-11; HFH11; HNF-3; INS-1; MPHOSPH2; MPP-2; MPP2; PIG29; TGT3; TRIDENT

Catalog #: A2493

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 2305

Isotype: IgG

Swiss Prot: Q08050

Purity: Affinity purification

For research use only.

Background:

Forkhead box M1 (FoxM1) is a forkhead box family transcription factor that regulates a number of genes throughout the cell cycle to help control DNA replication, mitosis and cell proliferation.

FoxM1 expression increases during G1 and S and reaches maximum levels in G2/M (1-3).

Nuclear translocation occurs just before entry into G2/M and is associated with FoxM1

phosphorylation (4). Phosphorylation of FoxM1 by MAPK (Ser331 Ser704), Cyclin/Cdk (Thr600, Thr611, Thr672), Plk1 (Ser715, Ser724), and Chk2 (Ser376) stabilizes and activates FoxM1 (4-7).

Forkhead box M1 is expressed in all embryonic tissues but is restricted to proliferating tissues in adults (8). Recent studies have shown that FoxM1 expression is negatively regulated by p53

(9,10). Upregulation of FoxM1 is associated with many human cancers, including prostate, breast, lung, ovary, colon, pancreas, stomach, bladder, liver, and kidney, and may be associated with p53 mutations in some tumors (10,11). As a result, FoxM1 inhibitors have become a topic of interest for potential cancer therapy (12).

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