Product Datasheet

FOXM1 Antibody

Catalog No: #48295

Package Size: #48295-1 50ul #48295-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

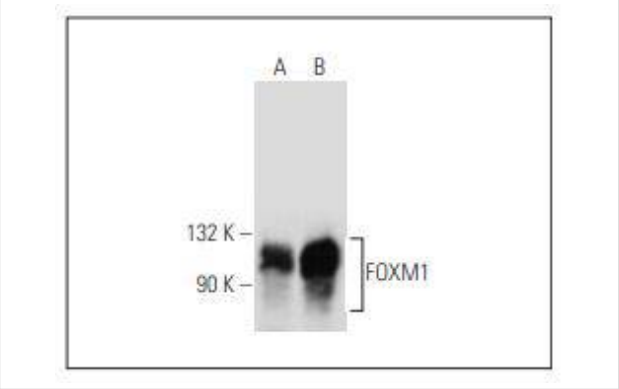
Product Name	FOXM1 Antibody
Host Species	Mouse
Clone No.	4G1
Purification	ProA affinity purified
Applications	WB, IP, IF
Species Reactivity	Human;Mouse;Rat
Immunogen Description	peptide
Conjugates	Unconjugated
Other Names	FKHL16 antibody Forkhead box M1 antibody Forkhead box protein M1 antibody forkhead like 16 antibody Forkhead-related protein FKHL16 antibody FOX M1 antibody Foxm1 antibody FOXM1_HUMAN antibody FOXM1B antibody Hepatocyte nuclear factor 3 forkhead homolog 11 antibody HFH-11 antibody HFH11 antibody HNF-3/fork-head homolog 11 antibody HNF3 antibody INS1 antibody M phase phosphoprotein 2 antibody M-phase phosphoprotein 2 antibody MPHOSPH2 antibody MPM-2 reactive phosphoprotein 2 antibody MPP2 antibody PIG29 antibody TGT3 antibody Transcription factor Trident antibody Trident antibody WIN antibody Winged-helix factor from INS-1 cells antibody Winged-helix factor from INS1 cells antibody
Accession No.	Swiss-Prot#:Q08050
Calculated MW	83 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at 4°C

Application Details

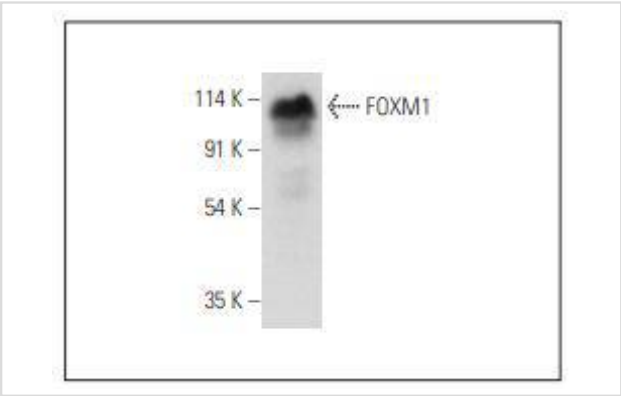
WB: 1:100-1:1,000

IP: 1-2 μg per 100-500 μg of total protein(1 ml of cell lysate)

Images



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



Western blot analysis of FOXM1 expression in CCRF-CEM whole cell lysate.

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.

References

1. Bonet, C. et al. 2012. Aurora B is regulated by the mitogen-activated protein kinase/extracellular signal-regulated kinase (MAPK/ERK) signaling pathway and is a valuable potential target in melanoma cells. J. Biol. Chem. 287: 29887-29898.

Published Papers

Doe John;Smith Jane;Jiang Huanyu;Zhang Yubiao;Hu Geliang;Ji Piyao;Ming Jianghua;Li Yaming;Zhou Yan el at., RNA-binding protein HNRNPD promotes chondrocyte senescence and osteoarthritis progression through upregulating FOXM1, , (2024)

PMID:

Note: This product is for in vitro research use only and is not intended for use in humans or animals.