ARG57595
anti-FOXM1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes FOXM1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ChIP, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	FOXM1
Species	Human
Immunogen	Recombinant protein of Human FOXM1.
Conjugation	Un-conjugated
Alternate Names	MPP-2; TRIDENT; MPHOSPH2; Forkhead-related protein FKHL16; HFH11; HNF-3/fork-head homolog 11; MPP2; FKHL16; HFH-11; Transcription factor Trident; INS-1; M-phase phosphoprotein 2; HNF-3; FOXM1B; Hepatocyte nuclear factor 3 forkhead homolog 11; Winged-helix factor from INS-1 cells; Forkhead box protein M1; PIG29; MPM-2 reactive phosphoprotein 2

Application Instructions

Application table

Application	Dilution
ChIP	1:20 - 1:100
ICC/IF	1:50 - 1:100
WB	1:500 - 1:1000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	HeLa
Observed Size	108 kDa

Properties

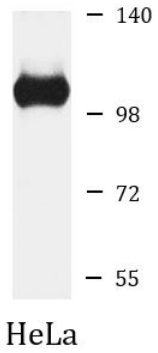
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

	cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	FOXM1
Gene Full Name	forkhead box M1
Background	The protein encoded by this gene is a transcriptional activator involved in cell proliferation. The encoded protein is phosphorylated in M phase and regulates the expression of several cell cycle genes, such as cyclin B1 and cyclin D1. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2011]
Function	Transcriptional factor regulating the expression of cell cycle genes essential for DNA replication and mitosis. Plays a role in the control of cell proliferation. Plays also a role in DNA breaks repair participating in the DNA damage checkpoint response. [UniProt]
Calculated Mw	84 kDa
PTM	Phosphorylated in M (mitotic) phase. Phosphorylation by the checkpoint kinase CHEK2 in response to DNA damage increases the FOXM1 protein stability probably stimulating the transcription of genes involved in DNA repair. Phosphorylated by CDK1 in late S and G2 phases, creating docking sites for the POLO box domains of PLK1. Subsequently, PLK1 binds and phosphorylates FOXM1, leading to activation of transcriptional activity and subsequent enhanced expression of key mitotic regulators. [UniProt]

Images



ARG57595 anti-FOXM1 antibody WB image

Western blot: 25 µg of HeLa cell lysate stained with ARG57595 anti-FOXM1 antibody at 1:1000 dilution.