

Rabbit FoxM1 Polyclonal Antibody | anti-FoxM1 antibody

Phospho-FoxM1 (Thr600) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328492	Rabbit	Human, Mouse, RatPredicted: Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

FoxM1; Polyclonal Antibody; Phospho-FoxM1 (Thr600) Antibody; FKHL16; Forkhead box M1; Forkhead box protein M1; forkhead like 16; Forkhead-related protein FKHL16; FOX M1; Foxm1; FOXM1_HUMAN; FOXM1B; Hepatocyte nuclear factor 3 forkhead homolog 11; HFH-11; HFH11; HNF-3/fork-head homolog 11; HNF3; INS1; M phase phosphoprotein 2; M-phase phosphoprotein 2; MPHOSPH2; MPM-2 reactive phosphoprotein 2; MPP2; PIG29; TGT3; Transcription factor Trident; Trident; WIN; Winged-helix factor from INS-1 cells; Winged-helix factor from INS1 cells; anti-FoxM1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-FoxM1 (Thr600) Antibody detects endogenous levels of FoxM1 only when phosphorylated at Thr600.
Purity/Purification	Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	763
Applicable Applications for anti-FoxM1 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human FoxM1 around the phosphorylation site of Thr600.
Tissue Specificity	Expressed in thymus, testis, small intestine, colon followed by ovary. Appears to be expressed only in adult organs containing proliferating/cycling cells or in response to growth factors. Also expressed in epithelial cell lines derived from tumors. Not expressed in resting cells. Isoform 2 is highly expressed in testis.
Conjugate	Unconjugated
Subcellular Location	Nucleus
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Phospho-FoxM1 (Thr600) in lysates of NIH 3T3, using Phospho-FoxM1 (Thr600) Antibody.



IHC (Immunohistochemistry)

At 1/100 staining mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary

ADDITIONAL INFORMATION

Related Product Information for anti-FoxM1 antibody	Description: 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. Post Translational Modifications: 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. Similarity: Within the protein there is a domain which acts as a transcriptional activator. Insertion of a splicing sequence within it inactivates this transcriptional activity, as it is the case for isoform 4.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	12644391
NCBI GeneID	2305
UniProt Accession #	Q08050
Molecular Weight	Observed: 83 kDa Predicted: 85 kDa
NCBI Official Full Name	Forkhead box protein M1
NCBI Official Synonym Full Names	forkhead box M1
NCBI Official Symbol	FOXM1
NCBI Official Synonym Symbols	MPP2; HFH11; HNF-3; INS-1; MPP-2; PIG29; FKHL16; FOXM1A; FOXM1B; FOXM1C; HFH-11; TRIDENT; MPHOSPH2
NCBI Protein Information	forkhead box protein M1
UniProt Protein Name	Forkhead box protein M1
UniProt Gene Name	FOXM1
UniProt Synonym Gene Names	FKHL16; HFH11; MPP2; WIN; HFH-11; HNF-3/fork-head homolog 11
UniProt Entry Name	FOXM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.