

叉头蛋白 M1 抗体

产品货号： mlR2687

英文名称： FOXM1

中文名称： 叉头蛋白 M1 抗体

别 名： FKH L16; FKHL 16; FKHL16; Forkhead box M1; Forkhead box protein M1; Forkhead drosophila homolog like 16; Forkhead Drosophila like 16; Forkhead like 16; Forkhead related protein FKHL16; FOX M1; FOXM 1; FOXM 1c; FOXM1B; FOXM1c; Hepatocyte nuclear factor 3 forkhead homolog 11; HFH 11; HFH11; HNF 3; HNF 3/fork head homolog 11; HNF 3/forkhead homolog 11; HNF3; Human putative M phase phosphoprotein 2; INS 1; INS1; M phase phosphoprotein 2; MPHOSPH 2; MPHOSPH2; MPM 2; MPM 2 reactive phosphoprotein 2; MPM2 reactive phosphoprotein 2; MPP 2; MPP2; PIG 29; PIG29; Transcription factor Trident; Trident; WIN; Winged helix factor from INS 1 cells; FOXM1_HUMAN.

研究领域： 肿瘤 免疫学 转录调节因子

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Dog, Horse, Rabbit,

产品应用： ELISA=1:500-1000

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分 子 量： 84kDa

细胞定位： 细胞核

性 状： Lyophilized or Liquid

浓 度 : 1mg/ml

免 疫 原 : KLH conjugated synthetic peptide derived from human FOXM1:301-400/801

亚 型 : IgG

纯化方法 : affinity purified by Protein A

储 存 液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed : PubMed

产品介绍 : The Forkhead Box (Fox) proteins are an extensive family of transcription factors that share homology in the winged helix DNA-binding domain and the members of which play essential roles in a diverse range of developmental processes as well as cellular proliferation, differentiation, and longevity. The Fox factors are especially important in the establishment of the body axis and the development of tissues from all three germ layers. FOXM1 is also overexpressed in many human cancers and has a role in tumorigenesis.

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.

Subcellular Location:

Nucleus.

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.

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:

Contains 1 fork-head DNA-binding domain.

SWISS:

Q08050

Gene ID:

2305

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

FOXM1(Forkhead box M1)是 Forkhead 转录因子家族中的成员，在很多肿瘤组织中都有不同的表达。