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Anti-FOXM1 Picoband Antibody

Catalog # ABO11885

Specification

Anti-FOXM1 Picoband Antibody - Product Information

Application	**WB**
Primary Accession	Q08050
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Forkhead box protein M1(FOXM1) detection. Tested with WB in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-FOXM1 Picoband Antibody - Additional Information

Gene ID 2305

Other Names
Forkhead box protein M1, Forkhead-related protein FKHL16, Hepatocyte nuclear factor 3 forkhead homolog 11, HFH-11, HNF-3/fork-head homolog 11, M-phase phosphoprotein 2, MPM-2 reactive phosphoprotein 2, Transcription factor Trident, Winged-helix factor from INS-1 cells, FOXM1, FKHL16, HFH11, MPP2, WIN

Calculated MW
84283 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
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.

Protein Name
Forkhead box protein M1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E.coli-derived human FOXM1 recombinant protein (Position: A411-Q763). Human FOXM1 shares 75% and 76% amino acid (aa) sequences identity with mouse and rat FOXM1, respectively.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Contains 1 fork-head DNA-binding domain.

Anti-FOXM1 Picoband Antibody - Protein Information

Name FOXM1

Synonyms FKHL16, HFH11, MPP2, WIN

Function
Transcription factor regulating the expression of cell cycle genes essential for DNA replication and mitosis (PubMed:19160488, PubMed:20360045). Plays a role in the control of cell proliferation (PubMed:19160488). Also plays a role in DNA break repair, participating in the DNA damage checkpoint response (PubMed:17101782). Promotes transcription of PHB2 (PubMed:33754036).

Cellular Location
Nucleus.

Tissue Location
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

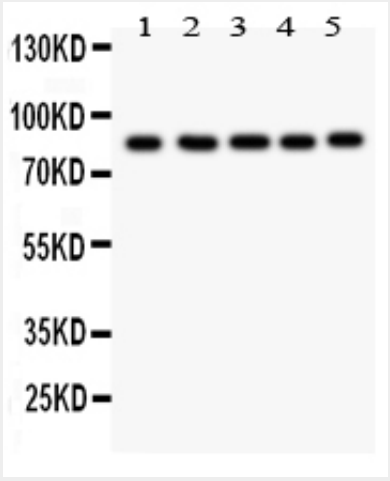
Anti-FOXM1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

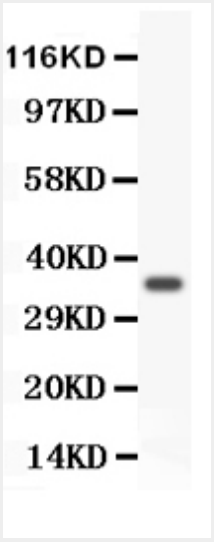
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-FOXM1 Picoband Antibody - Images



Anti- FOXM1 antibody, ABO11885, Western blottingAll lanes: Anti FOXM1 (ABO11885) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: COLO320 Whole Cell Lysate at 40ugLane 3: SW620 Whole Cell Lysate at 40ugLane 4: SKOV Whole Cell Lysate at 40ugLane 5: MCD-7 Whole Cell Lysate at 40ugPredicted bind size: 84KDObserved bind size: 84KD



Anti- FOXM1 antibody, ABO11885, Western blottingAll lanes: Anti FOXM1 (ABO11885) at 0.5ug/mlWB: Recombinant Human FOXM1 Protein 0.5ngPredicted bind size: 36KDObserved bind size: 36KD

Anti-FOXM1 Picoband Antibody - Background

Forkhead box protein M1, also called FOXM1, is a protein that in humans is encoded by the FOXM1 gene. It is mapped to 12p13.33. The protein encoded by this gene is a member of the FOX family of transcription factors. FOXM1 is known to play a key role in cell cycle progression where endogenous FOXM1 expression peaks at S and G2/M phases and also in the control of cell proliferation. FOXM1 gene is now known as a human proto-oncogene. Abnormal upregulation of FOXM1 is involved in the oncogenesis of basal cell carcinoma, the most common human cancer worldwide. It was hypothesized that FOXM1 induces cancer initiation through stem/progenitor cell expansion. What's

more, FOXM1 has been shown to modulate the epigenome. It was found that overexpression of FOXM1 brain washes" normal cells to adopt cancer-like epigenome."