

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 Na₃.

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 reconstitution, 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](http://www.uniprot.org/citations/19160488), PubMed: [20360045](http://www.uniprot.org/citations/20360045)). Plays a role in the control of cell proliferation (PubMed: [19160488](http://www.uniprot.org/citations/19160488)). Also plays a role in DNA break repair, participating in the DNA damage checkpoint response (PubMed: [17101782](http://www.uniprot.org/citations/17101782)). Promotes transcription of PHB2 (PubMed: [33754036](http://www.uniprot.org/citations/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

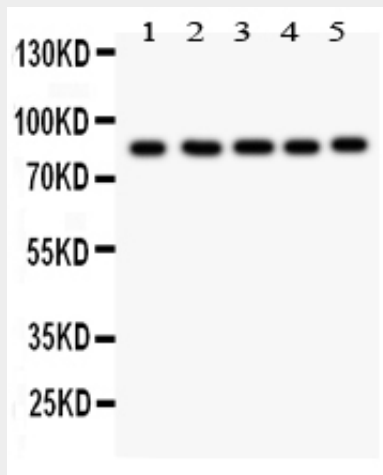
Anti-FOXM1 Picoband Antibody - Protocols

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

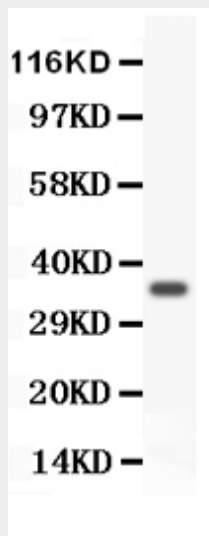
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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."