

For Research Use Only

# FOXM1 Recombinant antibody

Catalog Number: 84681-1-RR



## Basic Information

Catalog Number:

84681-1-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3729

GenBank Accession Number:

BC006192

GeneID (NCBI):

2305

UNIPROT ID:

Q08050

Full Name:

forkhead box M1

Calculated MW:

83 kDa

Observed MW:

84-110 kDa

Purification Method:

Protein A purification

CloneNo.:

242077A7

Recommended Dilutions:

WB 1:2000-1:10000

## Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB: L02 cells, A431 cells, HT-29 cells, U2OS cells

## Background Information

Forkhead box M1 (FOXM1), also named as HNF-3, HFH-11 or Trident, belongs to a superfamily of Fox transcription factors. FOXM1 is strongly associated with cell proliferation, it plays an important role in cell cycle progression by regulating both G1/S and G2/M phases, it is also involved in DNA damage repair, angiogenesis, apoptosis and tissue regeneration. Recently, crucial roles of this transcription factor were found in the development and progression of many cancers including colorectal, lung, prostate, liver and breast cancer. FOXM1 levels are significantly higher and associated with tumor grade in most human tumors, rendering it a potential target of cancer diagnosis and therapies. Catalog#13147-1-AP is a rabbit polyclonal antibody raised against C-terminal of human FOXM1. And this antibody can recognize three kinds of FOXM1, FOXM1-pp (~95-110kDa), FOXM1-B (isoform2, ~83kDa) and FOXM1A (isoform4, ~90kDa). Sometimes a molecular weight of about 65 kDa can also be observed, which may be a degradation form of FOXM1 (PMID: 26547933).

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

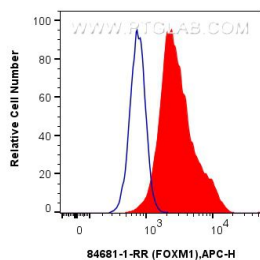
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

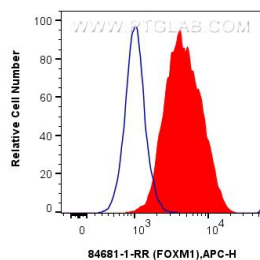
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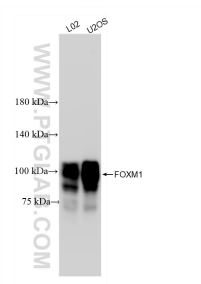
## Selected Validation Data



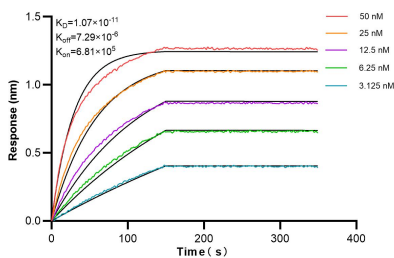
1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug FOXM1 Recombinant antibody (84681-1-RR, Clone:242077A7) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



1x10<sup>6</sup> A549 cells were intracellularly stained with 0.25 ug FOXM1 Recombinant antibody (84681-1-RR, Clone:242077A7) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



LO2 cells were subjected to SDS PAGE followed by western blot with 84681-1-RR (FOXM1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 84681-1-RR against Human FOXM1 were performed. The affinity constant is 10.7 pM.