

# [KO Validated] Ki67 Rabbit mAb

Catalog No.: A20018

KO Validated
Recombinant
93 Publications

## Basic Information

### Observed MW

359 kDa and below

### Calculated MW

359 kDa

### Category

Primary antibody

### Applications

WB,IF/ICC,IF-F,IHC-P,mIHC,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC5050-01

## Background

Enables protein C-terminus binding activity. Involved in regulation of chromosome segregation and regulation of mitotic nuclear division. Located in chromosome; nuclear body; and nucleolus. Colocalizes with condensed chromosome. Implicated in Crohn's disease; breast cancer; human immunodeficiency virus infectious disease; and pancreatic cancer. Biomarker of several diseases, including Barrett's esophagus; autoimmune disease of musculoskeletal system (multiple); endocrine gland cancer (multiple); gastrointestinal system cancer (multiple); and interstitial cystitis.

## Recommended Dilutions

<b>WB</b>	1:2000 - 1:10000
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<b>IF/ICC</b>	1:50 - 1:200
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<b>IF-F</b>	1:200 - 1:800
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<b>IHC-P</b>	1:1000 - 1:4000
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<b>mIHC</b>	1:500 - 1:4000
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<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.
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## Immunogen Information

### Gene ID

4288

### Swiss Prot

P46013

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

KIA; MIB-; MIB-1; PPP1R105; Ki67

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

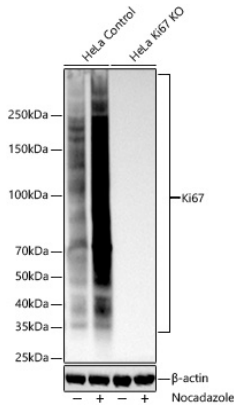
## Contact

		400-999-6126
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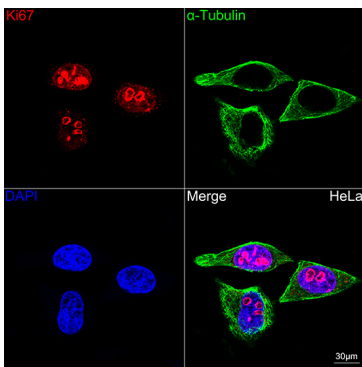
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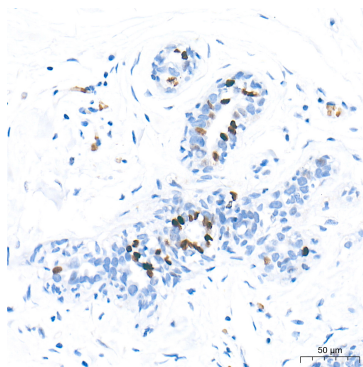
## Validation Data



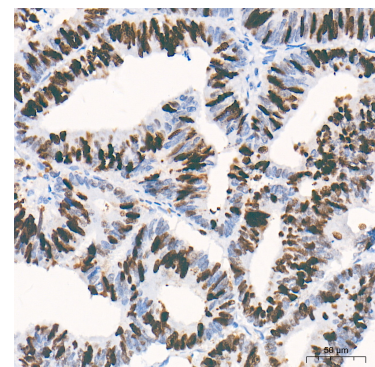
Western blot analysis of lysates from wild type (WT) and Ki67 knockout (KO) HeLa cells using [KO Validated] Ki67 Rabbit mAb (A20018) at 1:5000 dilution incubated overnight at 4°C. HeLa cells were treated with Nocadazole (1 µg/mL) at 37°C for 16 hours  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 45 s.



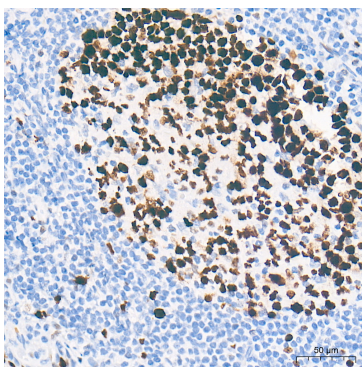
Confocal imaging of HeLa cells using [KO Validated] Ki67 Rabbit mAb (A20018, dilution 1:100)(Red) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



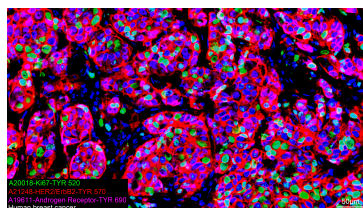
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using [KO Validated] Ki67 Rabbit mAb (A20018) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



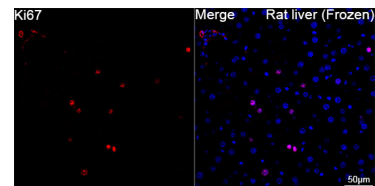
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KO Validated] Ki67 Rabbit mAb (A20018) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using [KO Validated] Ki67 Rabbit mAb (A20018) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



The multiplex IHC analysis on paraffin-embedded Human breast cancer tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : Ki67 Rabbit mAb (A20018, 1:500) with TSA-TYR-520 (Green), HER2/ErbB2 Rabbit mAb (A21248, 1:200) with TSA-TYR-570 (Red), and Androgen Receptor Rabbit mAb (A19611, 1:400) with



Confocal imaging of frozen sections of Rat liver tissue using [KO Validated] Ki67 Rabbit mAb (A20018, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

## Validation Data

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TSA-TYR-690 (Magenta), DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 20x objective lens.