

## Rabbit anti-Human Ki67/MKI67 Polyclonal Antibody | anti-MKI67 antibody

Anti-Ki67/MKI67 Antibody, Rabbit Polyclonal

|                               |                       |                            |                                                                                      |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA257494</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunofluorescence, Immunocytochemistry, Immunohistochemistry</b> |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------------------------------------------------|

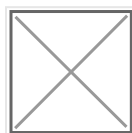
### PRODUCT SYNONYMS

Ki67/MKI67; Polyclonal Antibody; Anti-Ki67/MKI67 Antibody; Rabbit Polyclonal; Ki67/MKI67 Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-KiA Antibody; Anti-MIB- Antibody; Anti-MIB-1 Antibody; Anti-PPP1R105 Antibody; marker of proliferation Ki-67; anti-MKI67 antibody

### PRODUCT SPECIFICATIONS

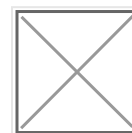
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|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                |
| Reactivity                                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                            |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                            |
| Specificity                                     | Human Ki67/MKI67                                                                                                                                                                                                                                                                                                                                                                                                      |
| Purity/Purification                             | Protein A & Antigen Affinity                                                                                                                                                                                                                                                                                                                                                                                          |
| Form/Format                                     | Liquid. 0.2um filtered solution in PBS                                                                                                                                                                                                                                                                                                                                                                                |
| Applicable Applications for anti-MKI67 antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                        |
| Immunogen                                       | A synthetic peptide corresponding to the center region of the Human Ki67/MKI67                                                                                                                                                                                                                                                                                                                                        |
| Conjugation                                     | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation                                     | Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human Ki67/MKI67, and purified by antigen affinity chromatography.                                                                                                                                                                                                                                                   |
| Preparation and Storage                         | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.<br>This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescence staining of MKI67 in MCF7 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human MKI67 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor-488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Nucleus.



#### IHC (Immunohistochemistry)

Immunochemical staining of human Ki67 in human gastric cancer with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



#### IHC (Immunohistochemistry)

Immunochemical staining of human Ki67 in human rectum with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.

### ADDITIONAL INFORMATION

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| <b>Related Product Information for anti-MKI67 antibody</b> | <p>Background: MKI67 contains 1 FHA domain and plays a key role in cell proliferation. During interphase, the MKI67 antigen can be exclusively detected within the cell nucleus, whereas in mitosis most of the protein is relocated to the surface of the chromosomes. MKI67 protein is present during all active phases of the cell cycle (G1, S, G2, and mitosis), but is absent from resting cells. MKI67 is an excellent marker to determine the growth fraction of a given cell population. The fraction of MKI67-positive tumor cells is often correlated with the clinical course of cancer. It is also associated with ribosomal RNA transcription. Inactivation of antigen MKI67 leads to inhibition of ribosomal RNA synthesis. The MKI67 protein is a nuclear and nucleolar protein, which is tightly associated with somatic cell proliferation. Antibodies raised against the human MKI67 protein paved the way for the immunohistological assessment of cell proliferation, particularly useful in numerous studies on the prognostic value of cell growth in clinical samples of human neoplasms. MKI67 protein expression is an absolute requirement for progression through the cell-division cycle. Recently, MKI67 is proved to be an independent prognostic factor for disease-free survival (HR 1.5-1.72) in multivariate analyses studies using samples from randomized clinical trials with secondary central analysis of the biomarker. MKI67 was not found to be predictive for long-term follow-up after chemotherapy. Nevertheless, high Ki-67 was found to be associated with immediate pathological complete response in the neoadjuvant setting, with an LOE of II-B. MKI67 could be considered as a prognostic biomarker for therapeutic decision.</p> |
| <b>References</b>                                          | <p>Rahmanzadeh R, et al. (2007) Chromophore-assisted light inactivation of pKi-67 leads to inhibition of ribosomal RNA synthesis. Cell Prolif. 40(3):422-30. Bullwinkel J, et al. (2006) Ki-67 protein is associated with ribosomal RNA transcription in quiescent and proliferating cells. J Cell Physiol. 206(3):624-35. Schonk DM, et al. (1989) Assignment of the gene(s) involved in the expression of the proliferation-related Ki-67 antigen to human chromosome 10. Hum Genet. 83(3):297-9. Endl E, et al., 2000, Exp Cell Res. Jun 15;257(2): 231-7. Luporsi E, et al., 2012, Breast Cancer Res Treat. 132(3): 895-915. Scholzen T, et al., 2000, J Cell Physiol. 182(3): 311-22.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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