

Product datasheet for **TA336567**

Ki67 (MKI67) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, ICC/IF, IHC, WB
Recommended Dilution:	Immunohistochemistry-Frozen, Western Blot, Flow Cytometry, Immunohistochemistry: 1:100-1:500, Immunocytochemistry/ Immunofluorescence: 1:50-1:200, Immunohistochemistry-Paraffin: 1:100-1:500
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide from the internal region of Mouse Ki67/MKI67, between aminoacids 2000-2050 (2021-2036) Uniprot# E9PVX6.
Formulation:	PBS, 0.02% Sodium azide.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at 4C. Do not freeze.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	359 kDa
Gene Name:	marker of proliferation Ki-67
Database Link:	NP_001139438 Entrez Gene 17345 Mouse Entrez Gene 4288 Human P46013



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Background:

Originally discovered employing mouse monoclonal antibody against a nuclear antigen from Hodgkin's lymphoma-derived cell line, this non-histone protein was named Ki67 after researcher's location (Gerdes and colleagues), Ki for Kiel University in Germany and 67 referring to the clone number on the 96-well plate. It interacts with KIF15 as well as MKI67IP, and is suggested to be involved in cell cycle regulation. Ki67 is a large protein with expected molecular weight of about 395 kD and has a very complex localization pattern within the nucleus, one which changes during cell cycle progression. Its expression occurs specially during late G1, S, G2 and M phases of the cell cycle, while in cells undergoing G0 phase, Ki67 remains undetectable. Ki67 undergoes phosphorylation/dephosphorylation during mitosis, is susceptible to proteases and its structure implies that its expression is regulated by proteolytic pathways. Ki67 is associated with nucleolar DFC (dense fibrillary component) and its regulation appears to be tightly controlled (estimated half life is 60-90 min, regardless of the cell position in the cell cycle), presumably by precise synthesis and degradation systems involving proteasome, a protease complex. Due to its association with cell division process, Ki-67 is routinely used as cellular proliferation marker of solid tumors as well as certain hematological malignancies, and a correlation has been demonstrated between Ki-67 index and the histopathological grade of cancers.

Synonyms:

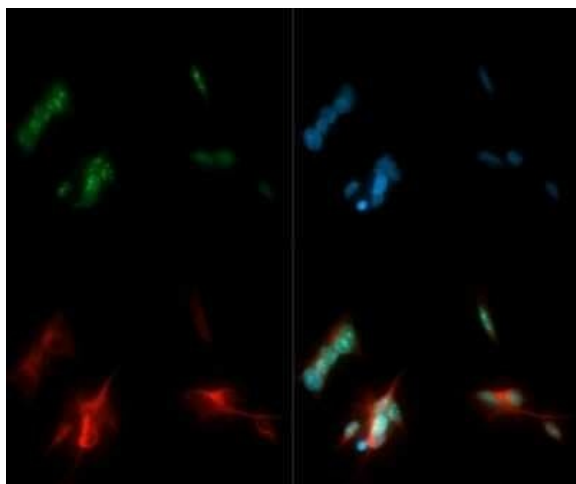
KiA; MIB-; MIB-1; PPP1R105

Note:

This Ki67 antibody is useful for Immunohistochemistry paraffin embedded sections and Immunocytochemistry/Immunofluorescence. Immunohistochemistry-Frozen and Western Blot were reported in scientific literature.

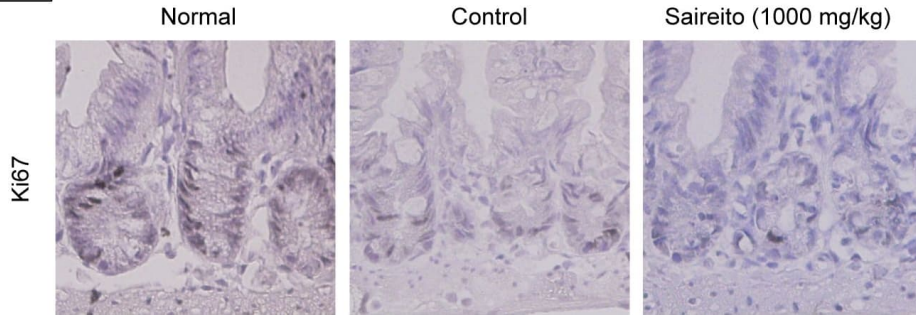
Protein Families:

Druggable Genome, ES Cell Differentiation/IPS

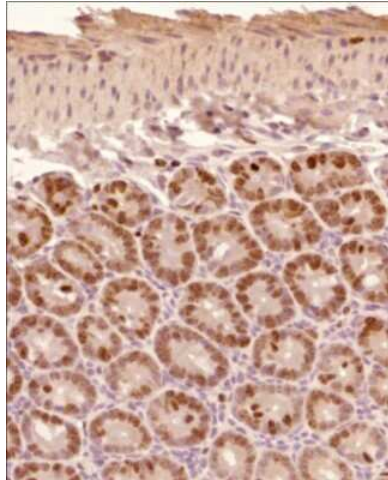
Product images:

Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody TA336567 - Ki67 antibody was tested in SH-SY5Y cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).

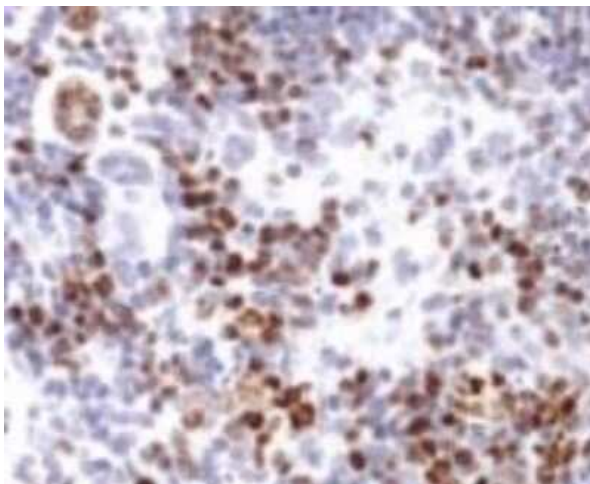
A



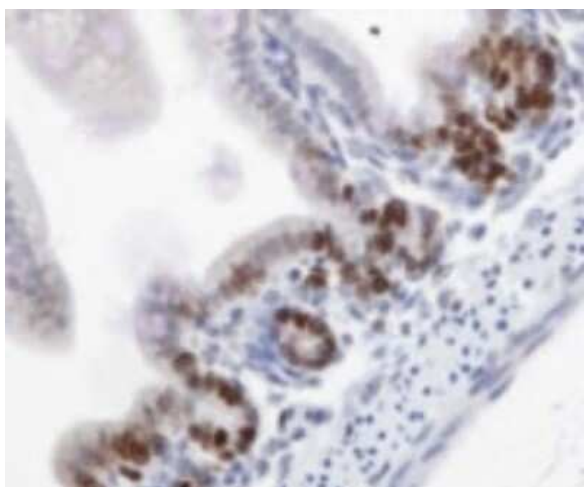
Effect of saireito on the suppression of cell proliferation induced by 5-fluorouracil (5-FU) in mouse small intestines. 5-FU (50 mg/kg) was injected i.p. while saireito (1000 mg/kg) was administered p.o. twice, 30 min before and 8 h after 5-FU injection. The jejunum was excised, sectioned, and Ki67 immunostaining was performed (A). The number of proliferative cells was counted (B). Data are presented as the mean \pm SEM of 6 mice. #P < 0.05, versus normal (5-FU-untreated).



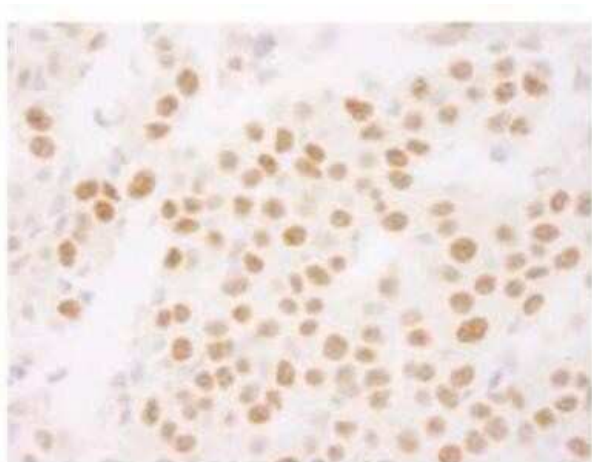
Immunohistochemistry-Paraffin: Ki67/MKI67 Antibody TA336567 - IHC analysis of a formalin fixed paraffin embedded tissue section of mouse intestine using 1:200 dilution of rabbit anti-Ki67 antibody. The staining was developed with HRP labeled anti-rabbit IgG secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin. This antibody generated a specific nuclear staining in epithelial cells and the staining was more intense in the cells close to the bases of crypts. Weak to moderate positivity was found at the cytoplasmic level also.



Immunohistochemistry: Ki67/MKI67 Antibody TA336567 - Immunohistochemical analysis of mouse spleen.



Immunohistochemistry: Ki67/MKI67 Antibody TA336567 - Detection of Ki67 in formalin-fixed paraffin embedded mouse intestine using TA336567.



Immunohistochemistry-Paraffin: Ki67/MKI67 Antibody TA336567 - FFPE section of human breast carcinoma. Antibody: Affinity purified rabbit anti-Ki-67 (TA336567) used at a dilution of 1:250.