SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-Ki-67 antibody

Catalog Number: SL23103R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Ki-67
Immunogen:	KLH conjugated synthetic peptide derived from mouse Ki-67: 1231-1330/2938
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	ICC/IF=1:100-500 Flow-Cyt=1ug/Test（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human
Predicted MW.:	358kDa
Subcellular Location:	The nucleus
Background:	Ki67 antigen is the prototypic cell cycle related nuclear protein, expressed by proliferating cells in all phases of the active cell cycle (G1, S, G2 and M phase). It is absent in resting (G0) cells. Ki67 antibodies are useful in establishing the cell growing fraction in neoplasms (immunohistochemically quantified by determining the number of Ki67 positive cells among the total number of resting cells = Ki67 index). In neoplastic tissues the prognostic value is comparable to the tritiated thymidine labelling index. The correlation between low Ki67 index and histologically low grade tumours is strong. Ki67 is routinely used as a neuronal marker of cell cycling and proliferation. **Function:** Thought to be required for maintaining cell proliferation. **Subcellular Location:** Nucleus. Chromosome. Predominantly localized in the G1 phase in the perinucleolar region, in the later phases it is also detected throughout the nuclear interior, being predominantly localized in the nuclear

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	matrix. In mitosis, it is present on all chromosomes. **Similarity:** Contains 1 FHA domain. **Database links:** **Entrez Gene:** 4288 Human **Entrez Gene:** 17345 Mouse **Entrez Gene:** 246042 Rat Omim: 176741 Human **SwissProt:** P46013 Human **SwissProt:** Q91VE6 Mouse **SwissProt:** Q5RJM0 Rat **Unigene:** 689823 Human **Unigene:** 80976 Human **Unigene:** 4078 Mouse **Unigene:** 233802 Rat Proliferation Marker Like PCNA, Ki67 is a marker of cell proliferation, expressed in S, G2 and M phases during Apoptosis, and absent in G0 phase. The level of Ki-67 proliferation index is closely related to the degree of differentiation, invasion, metastasis, and prognosis of many Tumour types, and is therefore widely used as one of the mandatory tests for various malignant Tumours.

[VALIDATION IMAGES]

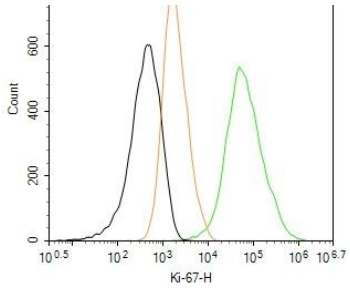


Figure 1. The HepG2 (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Rabbit Anti-Ki-67 antibody (SL23103R,1:100); Isotype Control (orange): Rabbit IgG (SL0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed

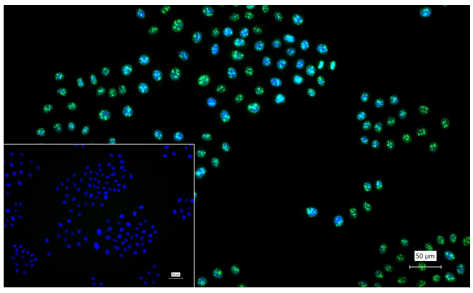


Figure 2. 4% Paraformaldehyde-fixed Hela (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (Ki-67) polyclonal Antibody, unconjugated (SL23103R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, SL60295G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control

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