

Anti-Ki67 Antibody

ER1706-46



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell, IHC-P, FC
Molecular Wt:	Predicted band size: 359 kDa

Description: Required to maintain individual mitotic chromosomes dispersed in the cytoplasm following nuclear envelope disassembly. Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the chromosome surface. Prevents chromosomes from collapsing into a single chromatin mass by forming a steric and electrostatic charge barrier: the protein has a high net electrical charge and acts as a surfactant, dispersing chromosomes and enabling independent chromosome motility. Binds DNA, with a preference for supercoiled DNA and AT-rich DNA. Does not contribute to the internal structure of mitotic chromosomes. May play a role in chromatin organization.

Immunogen: Synthetic peptide within human Ki67 aa 1009-1094.

Positive control: HepG2, A431, A549, LOVO, human tonsil tissue, human lung cancer tissue, human colon cancer tissue, human stomach cancer tissue.

Subcellular location: Nucleus.

Database links: SwissProt: P46013 Human

Recommended Dilutions:

WB	1:500-1,000
IF-Cell	1:200-1:1,000
IHC-P	1:100-1:500
FC	1:50-1:200

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

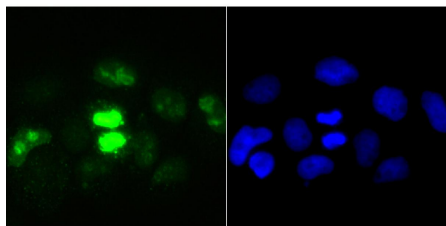


Fig1: ICC staining Ki67 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

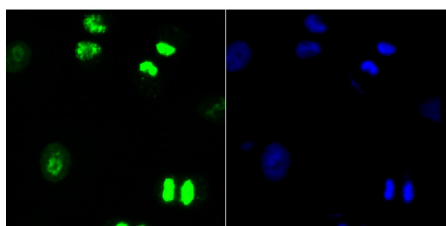


Fig2: ICC staining Ki67 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

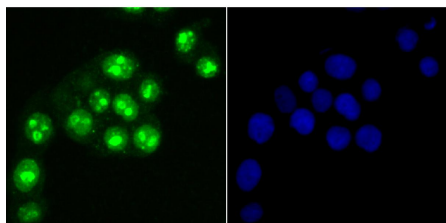


Fig3: ICC staining Ki67 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

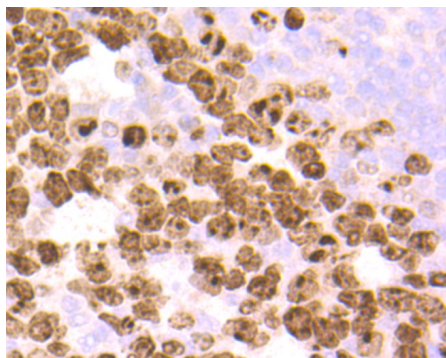


Fig4: Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Ki67 antibody. Counter stained with hematoxylin. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6) for 20 mins.

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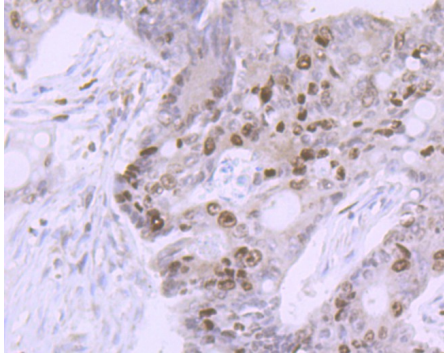


Fig5: Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Ki67 antibody. Counter stained with hematoxylin. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6) for 20 mins.

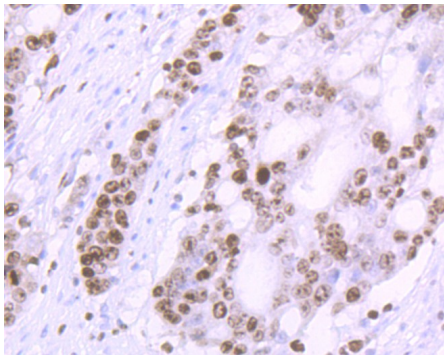


Fig6: Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue using anti-Ki67 antibody. Counter stained with hematoxylin. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6) for 20 mins.

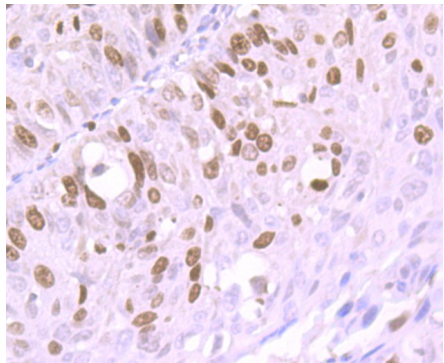


Fig7: Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Ki67 antibody. Counter stained with hematoxylin. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6) for 20 mins.

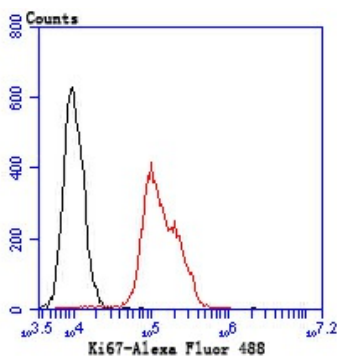


Fig8: Flow cytometric analysis of HeLa cells with Ki67 antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

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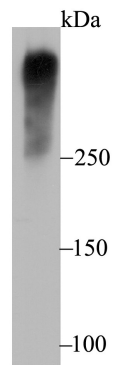


Fig9: Western blot analysis of Ki67 on HepG2 cell lysate using anti-Ki67 antibody at 1/1,000 dilution.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Cuylen S et al. Ki-67 acts as a biological surfactant to disperse mitotic chromosomes. *Nature* 535:308-312 (2016).
2. Booth DG et al. Ki-67 is a PP1-interacting protein that organises the mitotic chromosome periphery. *Elife* 3:E01641-E01641 (2014).

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