Product datasheet

Anti-Ki67/MKI67 Antibody

Catalog Number: *PB9026*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-Ki67/MKI67 Antibody
Gene Name	MKI67
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IF, ICC/IF
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Ki67 recombinant protein (Position: K2860-I3256).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	358 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunofluorescence (IF): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

Ki-67(Proliferation-related Ki-67 antigen), also known as MKI67 or KIA, is a protein that in humans is encoded by the MKI67 gene. From study of a panel of human-rodent somatic cell hybrids, it has been demonstrated that a gene involved in the expression of the MKI67 antigen is located on chromosome 10. By in situ hybridization, Fonatsch et al. (1991) regionalized the MKI67 gene to chromosome 10q25-qter. By FISH, Traut et al. (1998) mapped the mouse Mki67 gene to chromosome 7F3-F5. Antigen KI-67 is a nuclear protein that is associated with and may be necessary for cellular proliferation. Furthermore it is associated with ribosomal RNA transcription. Inactivation of antigen KI-67 leads to inhibition of ribosomal RNA synthesis.

Reference

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Anti-Ki67/MKI67 Antibody被引用在23文献中。

Selected Validation Data

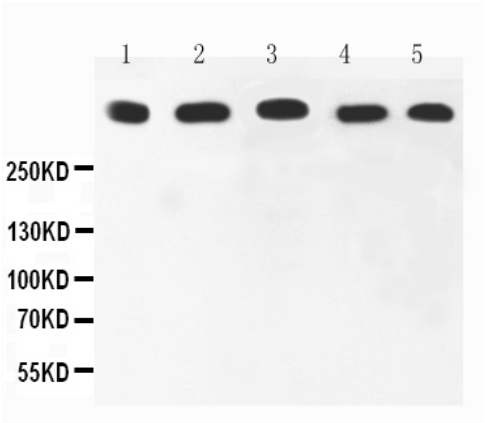

Figure 1. Western blot analysis of Ki67/MKI67 using anti-Ki67/MKI67 antibody (PB9026). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human MCF-7 whole cell lysates,
Lane 3: human Colo320 whole cell lysates,
Lane 4: human HepG2 whole cell lysates,
Lane 5: human SKOV whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Ki67/MKI67 antigen affinity purified polyclonal antibody (PB9026) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Ki67/MKI67 at approximately 358 kDa. The expected band size for Ki67/MKI67 is at 358 kDa.

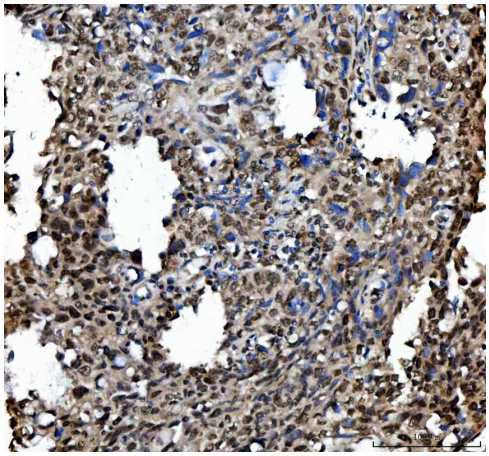

Figure 2. IHC analysis of Ki67/MKI67 using anti-Ki67/MKI67 antibody (PB9026).
Ki67/MKI67 was detected in a paraffin-embedded section of human lung cancer tissue. The tissue section was incubated with rabbit anti-Ki67/MKI67 Antibody (PB9026) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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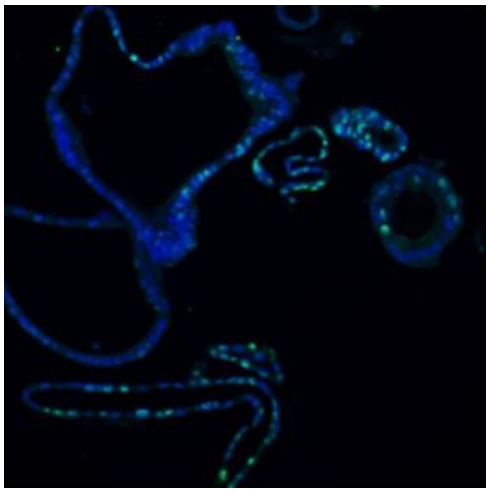

Figure 7. IF analysis of Ki67/MKI67 using anti-Ki67/MKI67 antibody (PB9026).
Ki67/MKI67 was detected in a paraffin-embedded section of human colon organoid tissue. The tissue section was incubated with rabbit anti-Ki67/MKI67 Antibody (PB9026) at a dilution of 1:100. Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog#BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).

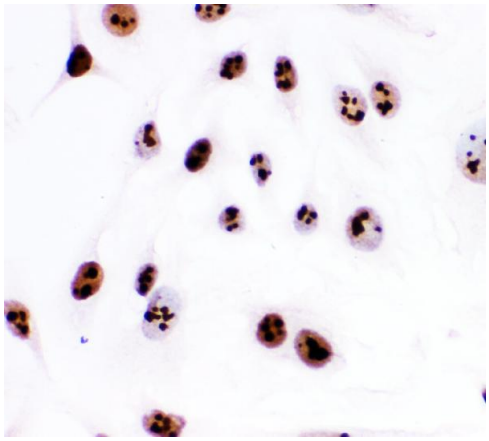

Figure 8. ICC analysis of Ki67/MKI67 using anti- Ki67/MKI67 antibody (PB9026).
Ki67/MKI67 was detected in an immunocytochemical section of Hela cells. The section was incubated with rabbit anti-Ki67/MKI67 Antibody (PB9026) at a dilution of 1:100. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.