Product datasheet

Anti-Ki67/MKI67 Antibody

Catalog Number: *PB9026*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-Ki67/MKI67 Antibody
Gene Name	MKI67
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC, IF, ICC
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg 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	358KD
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunofluorescence (IF): 1:50-400 Immunocytochemistry in fixed cells(ICC): 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

Anti-Ki67/MKI67 Antibody被引用在3文献中。

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Selected Validation Data

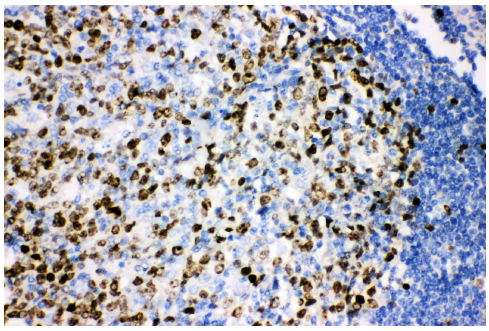

Figure 1. IHC analysis of Ki67 using anti-Ki67 antibody (PB9026).Ki67 was detected in paraffin-embedded section of human tonsil tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-Ki67 Antibody (PB9026) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

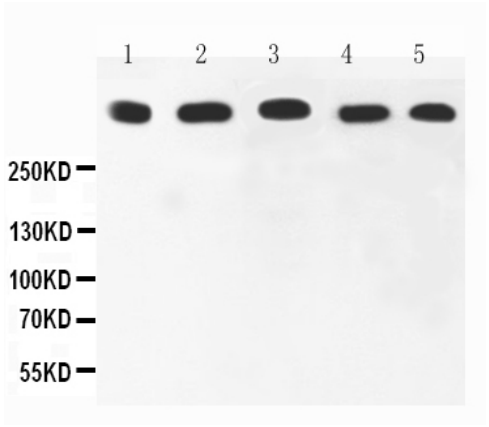

Figure 2. Western blot analysis of Ki67 using anti-Ki67 antibody (PB9026). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: HELA Whole Cell Lysate,Lane 2: MCF-7 Whole Cell Lysate, Lane 3: COLO320 Whole Cell Lysate,Lane 4: HEPG2 Whole Cell Lysate,Lane 5: SKOV Whole Cell Lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Ki67 antigen affinity purified polyclonal antibody (Catalog # PB9026) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Ki67 at approximately 358KD. The expected band size for Ki67 is at 358KD.

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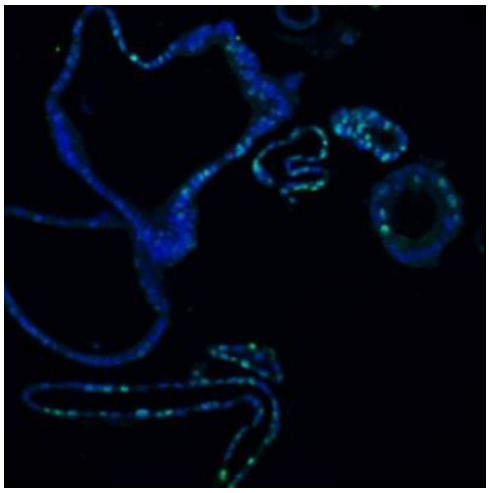

Figure 3. IF analysis using anti- Ki67 antibody (PB9026) detected in paraffin-embedded section of human colon organoid tissue. The tissue section were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog#BA1127) and counterstained with DAPI (blue).

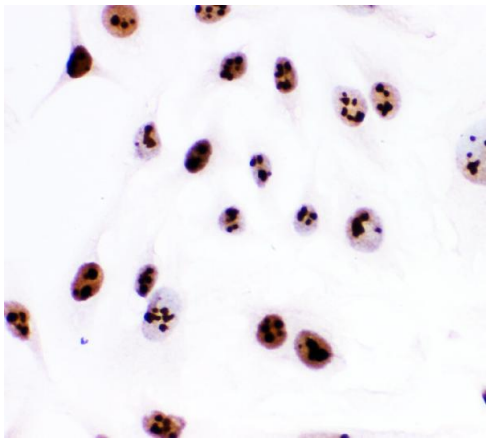

Figure 4. ICC analysis of KI67 using anti- KI67 antibody (PB9026). KI67 was detected in an immunocytochemical section of Hela cells. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog#SA1022) with DAB as the chromogen.