

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% NaN ₃ , 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°C as supplied.

Background Information

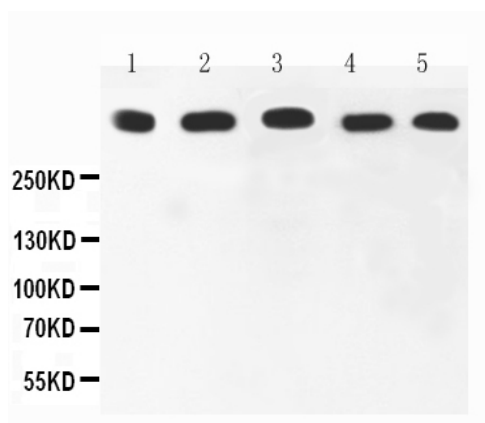
Ki-67(Proliferation-related Ki-67 antigen), also known as MKI67 or KIA, is a protein that in humans is encoded by the MKI67 gene. From study of a panel of human-rodent somatic cell hybrids, it has been demonstrated that a gene involved in the expression of the MKI67 antigen is located on chromosome 10. 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23文献中。

Selected Validation Data



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,

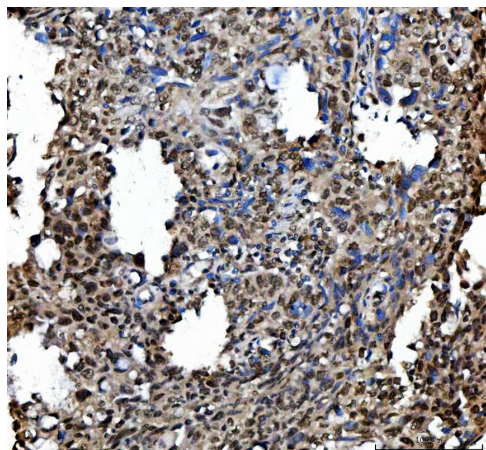
Lane 3: human Colo320 whole cell lysates,

Lane 4: human HepG2 whole cell lysates,

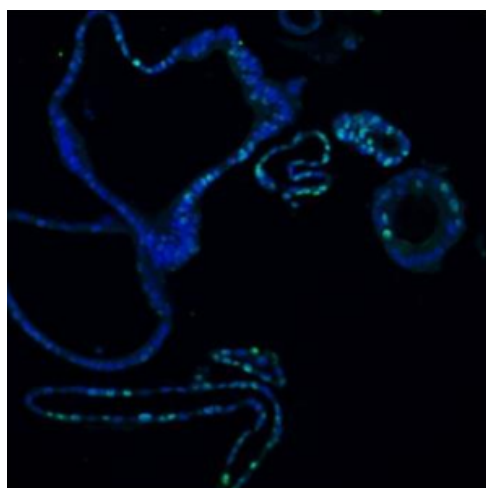
Lane 5: human SKOV whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

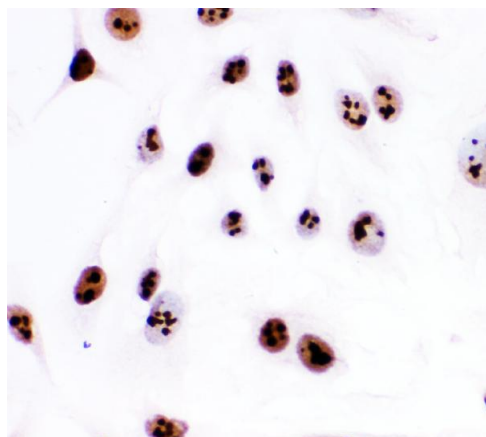
Then the membrane was incubated with rabbit anti-Ki67/MKI67 antigen affinity purified polyclonal antibody (PB9026) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Ki67/MKI67 at approximately 358 kDa. The expected band size for Ki67/MKI67 is at 358 kDa.



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.



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. Fluoro488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog#BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



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 Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.