

## Basic Information

Product Name	Anti-Ki67/MKI67 Antibody (Clone#5E12)		
Gene Name	MKI67		
Source	Mouse		
Isotype	IgG2b		
Species Reactivity	human		
Tested Application	IHC, IF, ICC/IF, FCM		
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	protein G purified.		
Dilution Ratios	Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Immunofluorescence (IF): 1:50-400 Flow cytometry (FCM): 1-3 µg/1x10 <sup>6</sup> cells (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. 6 months 2 to 8°C 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 (Clone#5E12)被引用在1文献中。

## Selected Validation Data

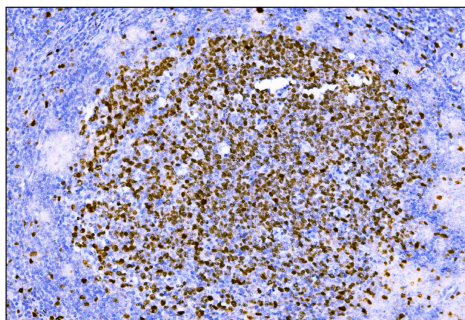


Figure 1. IHC analysis using anti- Ki67 antibody (M00254-8). detected in paraffin-embedded section of human tonsil tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

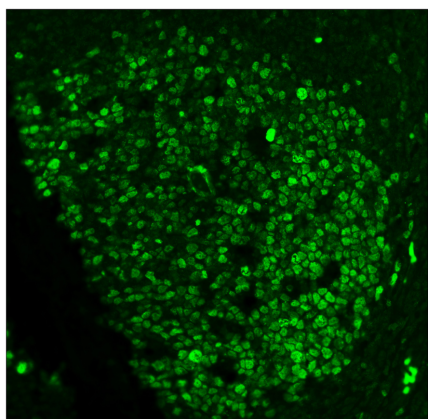


Figure 6. IF analysis using anti- Ki67 antibody (M00254-8). detected in paraffin-embedded section of human tonsil cancer tissues. The tissue section were stained using the Dylight488 conjugated Anti-mouse IgG Secondary Antibody ((green)(Catalog # BA1126) and counterstained with DAPI (blue).

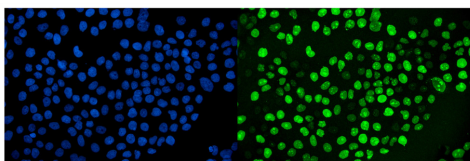


Figure 7. ICC analysis using anti- Ki67 antibody (M00254-8). was detected in immersion fixed A549 cell. Cells were stained using the Dylight488-conjugated Anti-mouse IgG Secondary Antibody (green)(Catalog # BA1126) and counterstained with DAPI (blue).

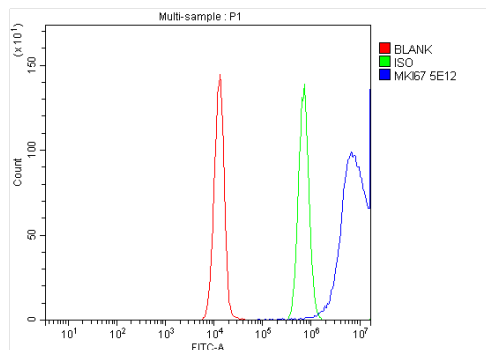


Figure 8. Flow cytometry analysis of Jurkat cell (1x10<sup>6</sup>) DyLight 488 conjugated goat anti-mouse IgG(blue) was used as secondary antibody. Isotype control antibody (Green line) was mouse IgG DyLight 488. Unlabelled sample (Red line).