

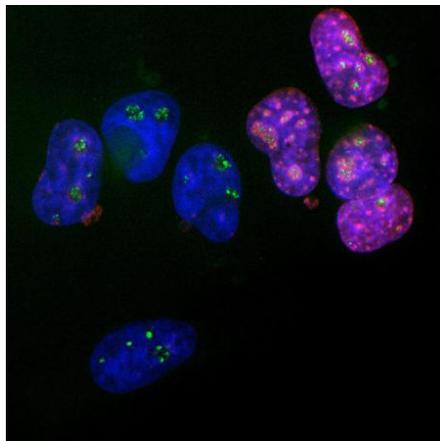


<b>Catalog Number:</b>	RA22150	<b>Host:</b>	Rabbit
<b>Product Type:</b>	Rabbit Polyclonal	<b>Species Reactivity:</b>	Human, Rat, Mouse
<b>Immunogen Sequence:</b>	Recombinant human construct containing amino acids 1,111-1,490 expressed in and purified from E. coli.	<b>Format:</b>	Supplied as an aliquot of serum plus 5mM sodium azide
<b>Applications:</b>	Immunofluorescence: 1:2,000-5,000 Immunohistochemistry: 1:1,000 Western Blot: 1:5,000-10,000		
<b>Storage:</b>	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.		

### Application Notes

#### Description/Data

The Ki67 protein was first discovered when researchers attempted to generate cancer cell specific monoclonal antibodies by injecting mice with nuclear preparations from Hodgkin's lymphoma cells. The presence of the Ki67 protein is frequently used as an indicator of cell proliferation and its level of expression is one of the most reliable biomarkers of proliferative status of cancer cells. Much research shows a correlation between Ki67 protein level and prognosis in cancer patients, when high Ki67 levels being associated with poorer outcomes.



RA22150 was made against a recombinant construct including amino acids 1,111-1,490 of the human sequence P46013, a region corresponding to 2nd, 3rd and 4th Ki67 type repeats. Although Ki67 is relatively poorly conserved in amino acid sequence, this antibody recognizes both rat and mouse Ki67. Note that the Ki67 proteins are very unstable and only expressed in large amounts in situations where many cells are dividing. As a result of the very short half life of Ki67 there are usually numerous fragments visible on western blots running below the 395kDa and 345kDa bands.

*Image: Immunofluorescent analysis of HeLa cells stained with rabbit pAb to Ki67, RA22150, dilution 1:5,000 in red, and mouse monoclonal antibody to fibrillarin in green. The blue is DAPI staining of nuclear DNA. The Ki67 protein accumulates in and around the nucleoli of interphase cells such as those on the right, and the nucleoli are revealed by the fibrillarin antibody. In contrast, cells in the quiescent G0 state such as those on the left are Ki67 negative but fibrillarin positive.*

### FOR RESEARCH USE ONLY

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