



Ki67 (Rodent)

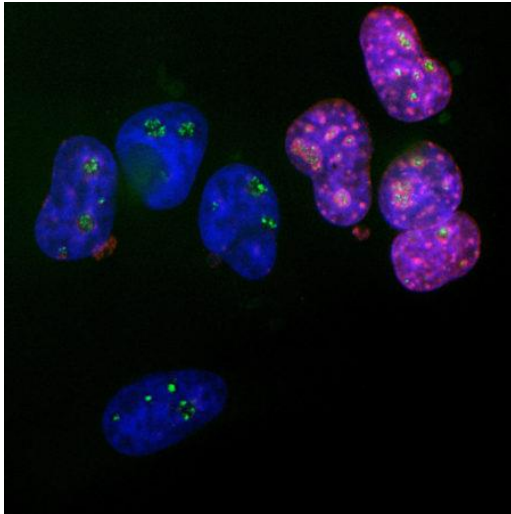
Data Sheet

Catalog Number:	RA22151	Host:	Rabbit
Product Type:	Rabbit Polyclonal	Species Reactivity:	Rat, Mouse
Immunogen Sequence:	Recombinant segment of mouse sequence expressed in and purified from E. coli.	Format:	Supplied as an aliquot of serum plus 5mM sodium azide
Applications:	Immunofluorescence: 1:2,000-5,000 Immunohistochemistry: 1:1,000 Western Blot: 1:5,000-10,000		
Storage:	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.



RA22151 was made against a recombinant construct including amino the acids 956-1,322 of the mouse sequence XP_006507475.1, a region corresponding to 2nd, 3rd and 4th Ki67 type repeats. Since the Ki67 protein is relatively poorly conserved in amino acid sequence, this antibody is not recommended for use on human tissues, for which RA22150 antibody, made against the human protein, would be superior. 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 major 395kDa and 345kDa bands.

Image: Immunofluorescent analysis of HeLa cells stained with rabbit pAb to Ki67, RA22151, dilution 1:5,000 in red, and mouse monoclonal antibody to fibrillar in green. The blue is DAPI staining of nuclear DNA.

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