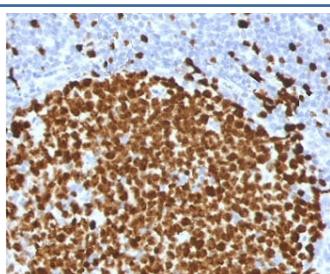


## Ki67 Antibody [clone PMKI67-1] (V3871)

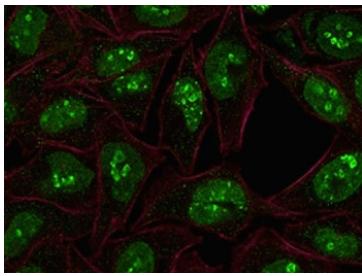
Catalog No.	Formulation	Size
V3871-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3871-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3871SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

### Bulk quote request

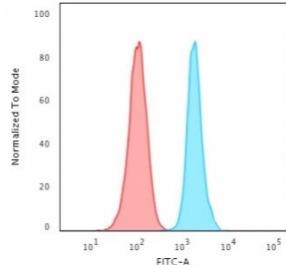
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2b, kappa
<b>Clone Name</b>	PMKI67-1
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P46013
<b>Localization</b>	Nuclear
<b>Applications</b>	Flow Cytometry : 1-2ug/10 <sup>6</sup> cells in 0.1ml Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
<b>Limitations</b>	This Ki67 antibody is available for research use only.



IHC testing of FFPE human tonsil stained with Ki67 antibody (clone PMKI67-1).  
 Required HIER: boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



Immunofluorescent staining of human HeLa cells with Ki67 antibody (green, clone PMKI67-1) and Phalloidin (red, membrane stain).



FACS testing of human HeLa cells with Ki67 antibody (blue, clone PMKI67-1) and isotype control (red). Cells were trypsinized and 2-4% PFA-fixed prior to staining.

## Description

Required to maintain individual mitotic chromosomes dispersed in the cytoplasm following nuclear envelope disassembly. Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the chromosome surface. Prevents chromosomes from collapsing into a single chromatin mass by forming a steric and electrostatic charge barrier: the protein has a high net electrical charge and acts as a surfactant, dispersing chromosomes and enabling independent chromosome motility. Binds DNA, with a preference for supercoiled DNA and AT-rich DNA. [UniProt]

## Application Notes

The stated application concentrations are suggested starting points. Titration of the Ki67 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 2293-2478 was used as the immunogen for the Ki67 antibody.

## Storage

Store the Ki67 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).