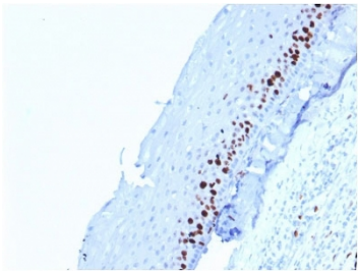
Ki67 Antibody [clone MKI67/2462] (V3864)

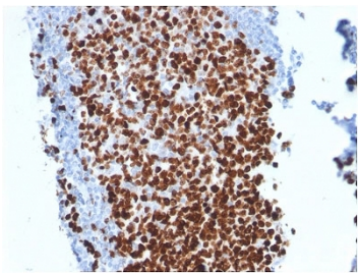
Catalog No.	Formulation	Size
V3864-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3864-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3864SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

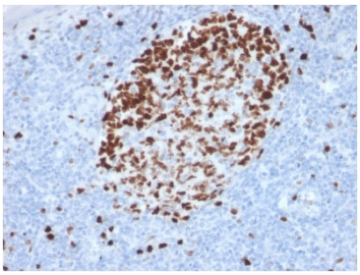
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	MKI67/2462
Purity	Protein G affinity chromatography
UniProt	P46013
Localization	Nuclear
Applications	Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 1-2ug/ml
Limitations	This Ki67 antibody is available for research use only.



IHC testing of FFPE human skin stained with Ki67 antibody (MKI67/2462). 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.



IHC testing of FFPE human tonsil stained with Ki67 antibody (MKI67/2462). 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.



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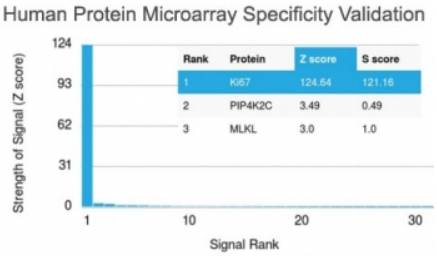
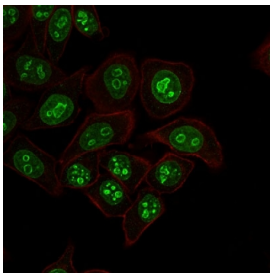
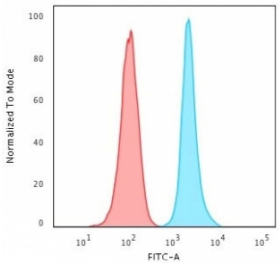


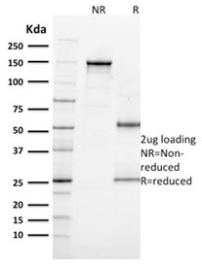
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Ki67 antibody (clone MKI67/2462). These results demonstrate the foremost specificity of the MKI67/2462 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



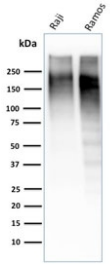
Immunofluorescent staining of human HeLa cells with Ki-67 antibody (green, clone MKI67/2462) and Phalloidin (red, membrane stain).



FACS testing of human HeLa cells with Ki-67 antibody (blue, clone MKI67/2462) and isotype control (red). Cells were trypsinized and 2-4% PFA-fixed prior to staining.



SDS-PAGE analysis of purified, BSA-free Ki67 antibody (clone MKI67/2462) as confirmation of integrity and purity.



Western blot testing of human Raji and Ramos cell lysate with Ki67 antibody. Expected molecular weight ~350 kDa.

Description

Ki67 antibody is a widely used reagent for detecting Ki67, a nuclear protein encoded by the MKI67 gene. Ki67 is one of the most reliable markers of cellular proliferation, as it is expressed during all active phases of the cell cycle (G1, S, G2, and M) but absent in quiescent cells (G0). This pattern makes Ki67 detection a standard approach for measuring growth fractions in normal and diseased tissues, especially in oncology.

Ki67 protein is localized to the nucleolus during interphase and coats chromosomes during mitosis. Its structural features include multiple repeat domains that associate with DNA and chromatin. Ki67 is thought to organize chromatin during cell division and to regulate nucleolar activity. Because its presence strictly correlates with proliferation, it is a valuable indicator of tumor aggressiveness and growth potential.

The Ki67 antibody clone MKI67/2462 provides highly specific and reproducible recognition of this proliferation marker. Recombinant technology ensures batch-to-batch consistency and dependable performance across experiments. Clone MKI67/2462 has been widely used in oncology, pathology, and developmental biology. Numerous peer-reviewed publications have documented Ki67 antibody applications in grading tumors, evaluating treatment responses, and studying stem cell populations, making this one of the most established proliferation markers.

Research using clone MKI67/2462 has clarified how Ki67 expression correlates with cancer prognosis. High Ki67 labeling indices are associated with more aggressive tumor phenotypes and poorer outcomes in cancers of the breast, prostate, lung, and brain. Beyond oncology, Ki67 detection supports studies of regenerative biology, where it is used to measure stem cell proliferation and tissue repair.

NSJ Bioreagents supplies this Ki67 antibody to advance studies in oncology, regenerative medicine, and cell cycle biology. Ki67 is also known as proliferation marker antibody, MKI67 antigen antibody, nuclear proliferation associated antigen antibody, and cell cycle associated protein antibody. These alternate designations emphasize its central importance in proliferation research.

Application Notes

Optimal dilution of the Ki67 antibody should be determined by the researcher.

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).