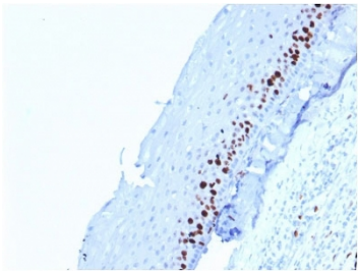
Ki-67 Antibody for WB / Ki67 Western Blot Antibody [clone MKI67/2462] (V3864)

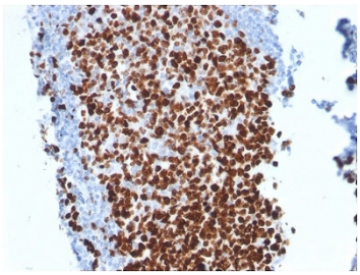
Catalog No.	Formulation	Size
V3864-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3864-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3864SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

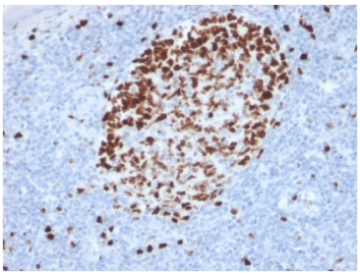
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	MKI67/2462
Purity	Protein G affinity chromatography
UniProt	P46013
Localization	Nuclear
Applications	Flow cytometry: 1-2ug/10^6 cells Immunofluorescence: 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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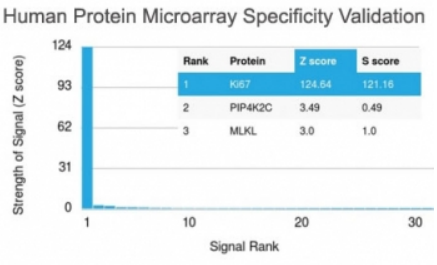
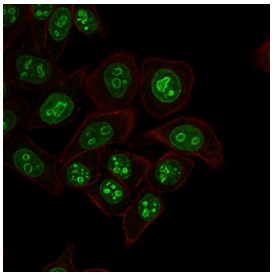
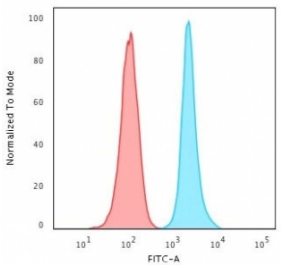


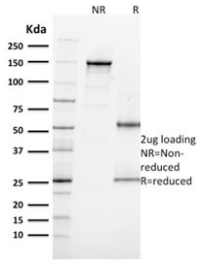
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Ki67 antibody (clone MKI67/2462). These results demonstrate the foremost specificity of the MKI67/2462 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination 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.



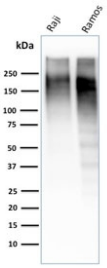
Immunofluorescent staining of human HeLa cells with Ki-67 antibody (green, clone MKI67/2462) and Phalloidin (red, membrane stain).



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 Ki-67 Antibody for WB (clone MKI67/2462) as confirmation of integrity and purity.



Ki-67 Antibody for WB. Western blot testing of human Raji and Ramos cell lysate with Ki-67 Antibody for WB MKI67/2462. Expected molecular weight ~350 kDa.

Description

Ki-67 antigen (MKI67) is a nuclear proliferation-associated protein encoded by the MKI67 gene and widely used as a marker of actively cycling cells. Ki-67 Antibody for WB enables detection of the Ki-67 protein by western blot, allowing researchers to evaluate proliferative activity and cell cycle progression in cultured cells and tissue-derived lysates. Western blot detection of Ki-67 is frequently used to compare proliferation levels across experimental conditions, cancer cell lines, or treatment groups that alter cell cycle activity.

Ki-67 antibody, also referred to as Ki67 antibody or MKI67 antibody in the literature, recognizes a large nuclear protein expressed during the G1, S, G2, and mitotic phases of the cell cycle but largely absent in quiescent G0 cells. Because Ki-67 expression correlates closely with cellular proliferation, Ki-67 western blot analysis provides a reliable biochemical method for detecting actively proliferating cell populations. Researchers frequently monitor Ki-67 protein levels by western blot when studying cell cycle regulation, tumor growth, and responses to anti-proliferative therapies.

Ki-67 protein is unusually large and exhibits complex migration behavior during SDS-PAGE analysis. The predicted molecular weight of Ki-67 is approximately 320-360 kDa depending on isoform, and western blot analysis commonly reveals broad or multiple high molecular weight bands in this region. These band patterns arise from extensive phosphorylation and other post-translational modifications that occur as Ki-67 participates in chromatin organization during the cell cycle. As a result, Ki-67 western blot signals often appear as diffuse or doublet bands at very high molecular weight rather than a single sharp band.

Western blot detection of Ki-67 is particularly useful in studies examining proliferative signaling pathways and tumor biology. Increased Ki-67 protein levels detected by western blot often correspond to rapidly dividing cells, including many cancer cell lines. In contrast, differentiated or growth-arrested cells typically show reduced Ki-67 expression. Because of this strong association with cellular proliferation, Ki-67 protein detection by western blot is widely used alongside imaging-based approaches such as immunohistochemistry or immunofluorescence to evaluate proliferative status.

Ki-67 Antibody for WB (clone MKI67/2462) supports western blot detection of the Ki-67 / MKI67 proliferation marker in lysates from proliferating cells. This mouse monoclonal antibody enables researchers to analyze Ki-67 protein expression patterns and evaluate changes in cellular proliferation using western blot assays.

HER2 is commonly evaluated alongside this marker in epithelial tumors and breast cancer research; see our HER2 antibody page. This antibody is part of a broader antibody panel offered by NSJ Bioreagents.

Application Notes

Optimal dilution of the Ki-67 Antibody for WB 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).

Alternate Names

Ki67 antibody, MKI67 antibody, Antigen KI-67 antibody, Ki-67 proliferation marker antibody, Nuclear proliferation antigen Ki-67 antibody

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