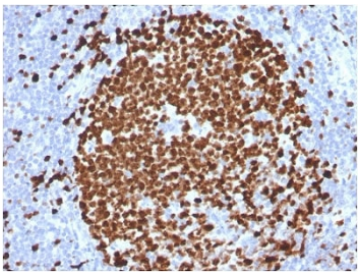
Ki-67 Antibody [clone MKI67/2465] (V3866)

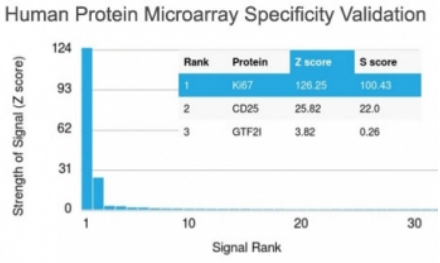
Catalog No.	Formulation	Size
V3866-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3866-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3866SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

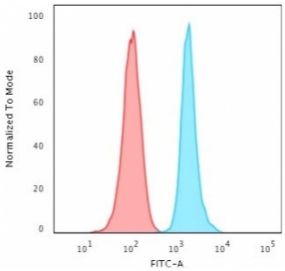
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	MKI67/2465
Purity	Protein G affinity chromatography
UniProt	P46013
Localization	Nuclear
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Ki-67 antibody is available for research use only.



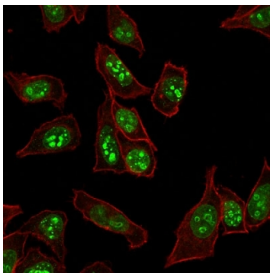
IHC testing of FFPE human tonsil stained with Ki-67 antibody (MKI67/2465). Required HIER: boiling tissue sections in 10mM citrate buffer, pH6, for 10-20 min followed by cooling at RT for 20 min.



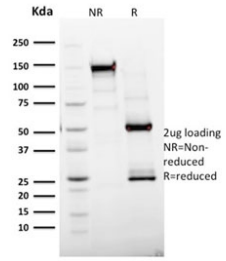
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Ki-67 antibody (clone MKI67/2465). These results demonstrate the foremost specificity of the MKI67/2465 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination 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.



FACS testing of human HeLa cells with Ki-67 antibody (blue, clone MKI67/2465) and isotype control (red). Cells were trypsinized and 2-4% PFA-fixed prior to staining.



Immunofluorescent staining of human HeLa cells with Ki-67 antibody (green, clone MKI67/2465) and Phalloidin (red, membrane stain).



SDS-PAGE analysis of purified, BSA-free Ki-67 antibody (clone MKI67/2465) as confirmation of integrity and purity.

Description

Ki-67 antibody is a well-established reagent for detecting Ki-67, a nuclear protein encoded by the MKI67 gene that is tightly linked to cellular proliferation. Ki-67 is expressed in all active phases of the cell cycle but absent in quiescent cells, making it a robust marker for growth fraction analysis. Because proliferation is central to development, regeneration, and cancer biology, Ki-67 detection is one of the most widely applied assays in biomedical research.

Ki-67 localizes to the nucleolus during interphase and redistributes to chromosomes during mitosis. Structurally, it contains repetitive domains that associate with DNA and chromatin, and it is thought to organize perichromosomal structures during cell division. Its expression correlates directly with the percentage of dividing cells, providing an accurate measure of tissue growth dynamics.

The Ki-67 antibody clone MKI67/2465 ensures reliable and reproducible recognition. Recombinant technology provides batch-to-batch uniformity, which is critical for clinical and research studies where precise proliferation indices are required. Clone MKI67/2465 has been cited in peer-reviewed publications addressing tumor grading, cancer prognosis, and therapeutic response assessment, validating its importance in oncology and pathology.

Research using clone MKI67/2465 has clarified how Ki-67 labeling indices correlate with patient outcomes in breast, prostate, lung, and brain cancers. Beyond oncology, Ki-67 has been applied in stem cell research, regenerative medicine, and developmental biology as a marker for cell cycle activity. Its universal association with dividing cells makes it indispensable for a wide range of scientific investigations.

Clinically, Ki-67 is included in cancer pathology reports as a prognostic marker. High Ki-67 expression often correlates with aggressive disease, while lower levels are linked to more favorable outcomes. By detecting Ki-67, clone MKI67/2465 supports both experimental exploration and translational research aimed at improving diagnostic and prognostic precision.

NSJ Bioreagents provides this Ki-67 antibody to support oncology, regenerative biology, and cell cycle research. Ki-67 is also known as MKI67 antigen antibody, proliferation marker antibody, nuclear proliferation antigen antibody, and growth fraction indicator antibody.

Application Notes

Optimal dilution of the Ki-67 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 2293-2478 was used as the immunogen for the Ki-67 antibody.

Storage

Store the Ki-67 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).