Ki-67 Antibody [clone MKI67/2465] (V3866BTN)

Catalog No.	Formulation	Size
V3866BTN	0.1 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	500 ul

Bulk quote request

|	
Availability	1-3 business days
Species Reactivity	Human
Format	Biotin Conjugate
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	MKI67/2465
Purity	Protein G affinity chromatography
UniProt	P46013
Localization	Nuclear
Applications	Flow Cytometry : 5ul per test per million cells Immunofluorescence : 2-4ug/ml at RT Immunohistochemistry (FFPE) : 2-4ug/ml at RT
Limitations	This Ki-67 antibody is available for research use only.

Human Protein Microarray Specificity Validation

Rank	Protein	Z score	S score
1	Ki67	126.25	100.43
2	CD25	25.82	22.0
3	GTF2I	3.82	0.26
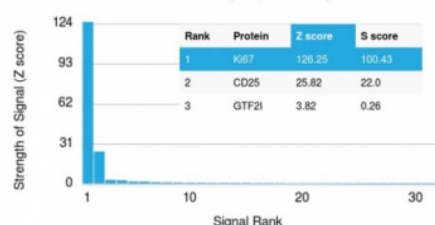
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Ki-67 antibody (clone MKI67/2465). These results demonstrate the foremost specificity of the MKI67/2465 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination 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.
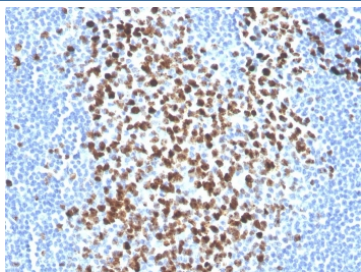
IHC testing of FFPE human tonsil stained with biotinylated Ki-67 antibody (MKI67/2465). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.
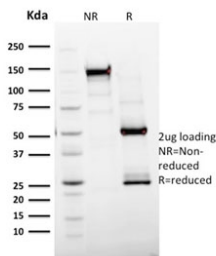
SDS-PAGE analysis of purified, BSA-free Ki-67 antibody (clone MKI67/2465) as confirmation of integrity and purity.

Description

Ki-67 antigen is a nuclear, non-histone protein that is present in all stages of the cell cycle except G0. This characteristic makes Ki-67 an excellent marker for proliferating cells and is commonly used as one of the prognostic factors in cancer studies. A correlation has been demonstrated between Ki-67 index and the histo-pathological grade of neoplasms. Assessment of Ki-67 expression in renal and ureter tumors shows a correlation between tumor proliferation and disease progression, thus making it possible to differentiate high-risk patients. Ki-67 expression may also prove to be important for distinguishing between malignant and benign peripheral nerve sheath tumors. Ki-67 labeling index has been shown to be a prognostic marker in a number of neoplasms including grade II astrocytoma, oligodendroglioma, colon carcinoma, and breast carcinoma. In general, Ki-67 is a good marker of proliferating cell populations.

Application Notes

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

Immunogen

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

Storage

Store the Ki-67 antibody at 2-8oC (up to one month) or aliquot and store at -20oC (longer term).