Datasheet for ABIN6940052

anti-Ki-67 antibody (AA 2293-2478)

6 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	Ki-67 (MKI67)
Binding Specificity:	AA 2293-2478
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Ki-67 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment of human Ki67 protein (around aa 2293-2478) (exact sequence is proprietary)
Clone:	MKI67-2461
Isotype:	IgG1 kappa
Specificity:	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.

Product Details

	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.
Purification:	Purified by Protein A/G

Target Details

Target:	Ki-67 (MKI67)
Alternative Name:	MKI67 (MKI67 Products)
Molecular Weight:	345kDa and 395kDa
Gene ID:	4288
UniProt:	P46013
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Positive Control: Any actively proliferating cells. Skin, tonsil or lymph node. Known Application: Western Blot (1-2 µg/mL), Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

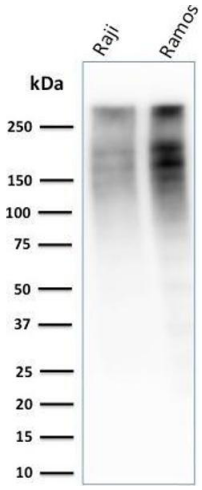
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C

Handling

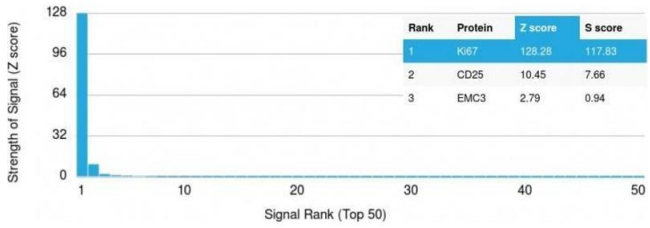
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



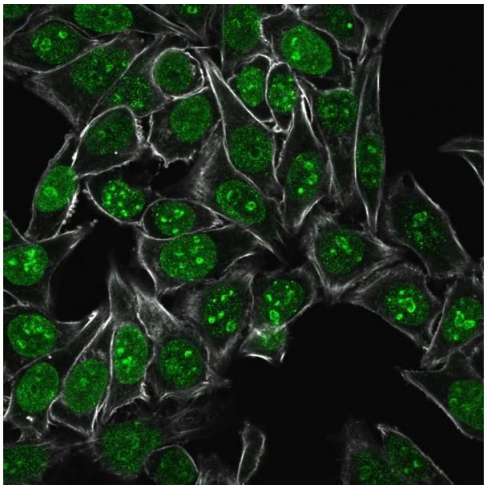
Western Blotting

Image 1. Western Blot Analysis of Raji and Ramos cell lysate using Ki67 Mouse Monoclonal Antibody (MKI67/2461).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Ki67 Mouse Monoclonal Antibody (MKI67/2461). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Immunofluorescence

Image 3. Confocal Immunofluorescence of HeLa cells Ki67 Mouse Monoclonal Antibody (MKI67/2461) labeled with CF488 (Green); WGA (Red) is used to label the membrane.

Please check the product details page for more images. Overall 6 images are available for ABIN6940052.

