

Product Datasheet

MKI67 Antibody (Biotin) (orb751175)

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| Catalog Number | orb751175 |
| Category | Antibodies |
| Description | Mouse monoclonal antibody against MKI67 conjugated to Biotin |
| Target | MKI67 |
| Clonality | Monoclonal |
| Species/Host | Mouse |
| Isotype | IgG2b |
| Conjugation | Biotin |
| Reactivity | Human |
| Form/Appearance | 200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% rAlbumin & 0.05% azide. Also available WITHOUT rAlbumin & azide at 1.0mg/ml. |
| Concentration | Purified Ab conjugated to Biotin |
| Buffer/Preservatives | Antibody purified from Bioreactor Concentrate by Protein A/G and conjugated to Biotin. Prepared in 10mM PBS with 0.05% rAlbumin and 0.05% azide. |
| Purification | Protein A |
| Immunogen | Recombinant fragment (around aa 2293-2478) of human Ki67 protein (exact sequence is proprietary) |
| UniProt ID | P46013 |
| MW | 345kDa and 395kDa |

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|----------------------------|---|
| Tested applications | FC, IF, IHC |
| Dilution range | Flow Cytometry (5ul per test per million cells); Immunofluorescence (2-4ug/ml at RT);,Immunohistochemistry (Formalin-fixed) (2-4ug/ml at RT);,(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined. |
| Application notes | Positive Control: Any actively proliferating cells. Human skin, tonsil or lymph node. |
| 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. 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. |
| Clone Number | MKI67/2465 |
| Expression System | Bioreactor |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Note | For research use only |
| Entrez | 4288 |
| Expiration Date | 12 months from date of receipt. |

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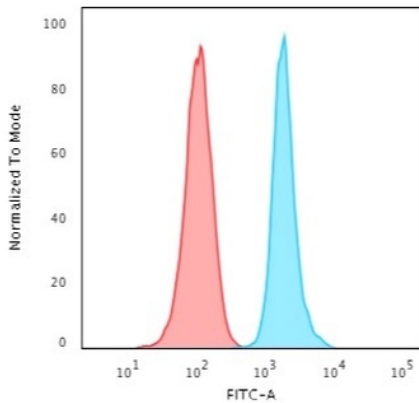
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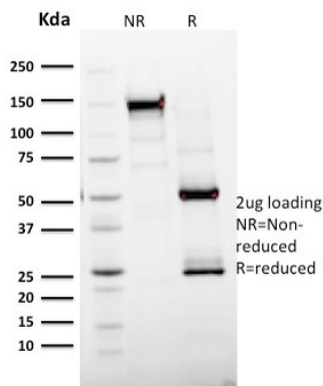
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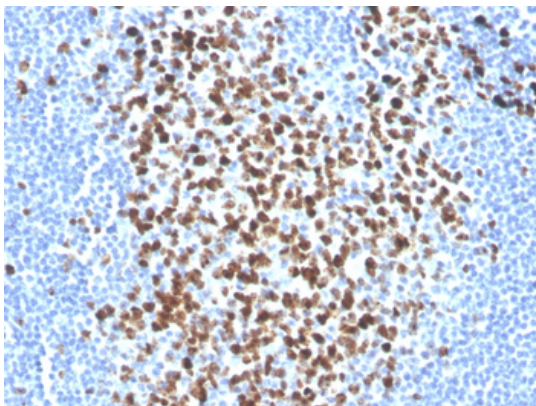
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Flow cytometry analysis of orb751175.



SDS-PAGE Analysis Purified Ki67 Mouse Monoclonal Antibody (MKI67/2465) (unconjugated) Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human tonsil stained with Biotin-conjugated Ki67 Mouse Monoclonal Antibody (MKI67/2465).

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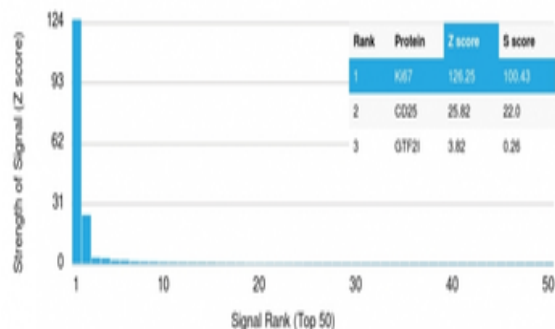
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Analysis of Protein Array containing more than 19000 full-length human proteins using Ki67-Monospecific Mouse Monoclonal Antibody (MKI67/2465). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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 HuProt™ 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.

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