

#9449 Store at -20C

## Ki-67 (8D5) Mouse mAb



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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> IHC-P, IF-IC, FC-FP	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Mouse IgG1	<b>UniProt ID:</b> #P46013	<b>Entrez-Gene Id:</b> 4288
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<b>Product Usage Information</b>	<b>Application</b> Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:800 - 1:3200 1:1600 - 1:6400 1:100 - 1:400
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.  For a carrier-free (BSA and azide free) version of this product see product #62548.	
<b>Specificity / Sensitivity</b>	Ki-67 (8D5) Mouse mAb recognizes endogenous levels of total Ki-67 protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Ki-67 protein.	
<b>Background</b>	Ki-67, named after the location where it was discovered (Kiel University, Germany), is a nuclear nonhistone protein (1) that is universally expressed among proliferating cells and absent in quiescent cells (2). Ki-67 detects proliferating cells in G1, S, G2, and mitosis, but not in the G0 resting phase. Research studies have shown that high levels of Ki-67 are associated with poorer breast cancer survival (3). Research studies have explored the use of Ki-67, along with other markers, as potential prognostic or predictive markers in breast cancer and other malignant diseases (4).	
<b>Background References</b>	1. Gerdes, J. et al. (1983) <i>Int J Cancer</i> 31, 13-20. 2. Weigel, M.T. and Dowsett, M. (2010) <i>Endocr Relat Cancer</i> 17, R245-62. 3. Jones, R.L. et al. (2009) <i>Breast Cancer Res Treat</i> 116, 53-68. 4. Yerushalmi, R. et al. (2010) <i>Lancet Oncol</i> 11, 174-83.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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