

#12202 Store at -20°C

Ki-67 (D3B5) Rabbit mAb (IHC Formulated)**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IHC-P	Reactivity: M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P46013	Entrez-Gene Id: 4288
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Product Usage Information	Application Immunohistochemistry (Paraffin)	Dilution 1:200 - 1:800
Storage	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.	
Specificity / Sensitivity	Ki-67 (D3B5) Rabbit mAb (IHC Formulated) recognizes endogenous levels of murine Ki-67 protein. It will also detect endogenous levels of human Ki-67 protein; however, Ki-67 (D2H10) Rabbit mAb #9027 is recommended for the detection of human Ki-67 protein in paraffin-embedded tissues.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the amino terminus of Ki-67 protein.	
Background	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).	
Background References	<ol style="list-style-type: none"> Gerdes, J. et al. (1983) <i>Int J Cancer</i> 31, 13-20. Weigel, M.T. and Dowsett, M. (2010) <i>Endocr Relat Cancer</i> 17, R245-62. Jones, R.L. et al. (2009) <i>Breast Cancer Res Treat</i> 116, 53-68. Yerushalmi, R. et al. (2010) <i>Lancet Oncol</i> 11, 174-83. 	

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