

Ki-67 (D3B5) Rabbit mAb (Mouse Preferred; IHC Formulated)



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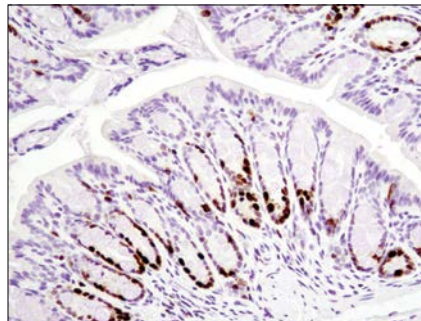
For Research Use Only. Not For Use In Diagnostic Procedures.

Applications IHC-P Endogenous	Species Cross-Reactivity M	Isotype Rabbit IgG**
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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).

Specificity/Sensitivity: Ki-67 (D3B5) Rabbit mAb (Mouse Preferred; 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 (IHC Specific) #9027 is recommended for the detection of human Ki-67 protein in paraffin-embedded tissues.

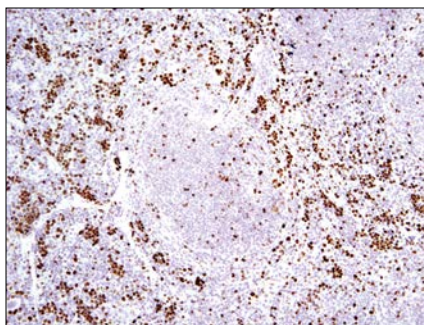
Source/Purification: Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the amino terminus of Ki-67 protein.



Immunohistochemical analysis of paraffin-embedded mouse colon using Ki-67 (D3B5) Rabbit mAb (Mouse Preferred; IHC Formulated).



Immunohistochemical analysis of paraffin-embedded mouse heart using Ki-67 (D3B5) Rabbit mAb (Mouse Preferred; IHC Formulated). Heart is negative, as expected.



Immunohistochemical analysis of paraffin-embedded mouse spleen using Ki-67 (D3B5) Rabbit mAb (Mouse Preferred; IHC Formulated).

Entrez-Gene ID #4288
UniProt ID #P46013

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.

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Immunohistochemistry (Paraffin) 1:200-1:800
Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.
Unmasking buffer: Citrate
Antibody diluent: SignalStain® Antibody Diluent #8112
Detection reagent: SignalStain® Boost (HRP, Rabbit) #8114

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

Background References:

- (1) Gerdes, J. et al. (1983) *Int J Cancer* 31, 13-20.
- (2) Weigel, M.T. and Dowsett, M. (2010) *Endocr Relat Cancer* 17, R245-62.
- (3) Jones, R.L. et al. (2009) *Breast Cancer Res Treat* 116, 53-68.
- (4) Yerushalmi, R. et al. (2010) *Lancet Oncol* 11, 174-83.