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## Ki-67 (D3B5) Rabbit mAb (Alexa Fluor® 488 Conjugate)

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

<b>Applications:</b> IHC-P, IF-F, IF-IC, FC-FP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<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 (Frozen) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:100 - 1:400 1:100 - 1:200 1:100 - 1:200 1:50
<b>Storage</b>	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
<b>Specificity/Sensitivity</b>	Ki-67 (D3B5) Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of total Ki-67 protein by Flow Cytometry. It lacks sensitivity in low-expressing cells by immunofluorescence but may be used to detect moderate-to-high levels of Ki-67 in cultured cells and frozen tissues. Species reactivity for IHC-P is mouse only.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human Ki-67 protein.	
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Ki-67 (D3B5) Rabbit mAb #9129.	
<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>	<ol style="list-style-type: none"> <li>Gerdes, J. et al. (1983) <i>Int J Cancer</i> 31, 13-20.</li> <li>Weigel, M.T. and Dowsett, M. (2010) <i>Endocr Relat Cancer</i> 17, R245-62.</li> <li>Jones, R.L. et al. (2009) <i>Breast Cancer Res Treat</i> 116, 53-68.</li> <li>Yerushalmi, R. et al. (2010) <i>Lancet Oncol</i> 11, 174-83.</li> </ol>	
<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-F:</b> Immunofluorescence (Frozen) <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	
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