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Ki-67 (D3B5) Rabbit mAb (PE Conjugate)

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

Applications: FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P46013	Entrez-Gene Id: 4288
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	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 antibodies. Protect from light. Do not freeze.	
Specificity/Sensitivity	Ki-67 (D3B5) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total Ki-67 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the amino terminus of human Ki-67 protein.	
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Ki-67 (D3B5) Rabbit mAb #9129.	
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	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	H: Human M: Mouse R: Rat	
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