

# Ki-67 Monoclonal Antibody (20Raj1), PE-Cyanine5.5, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Dog, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine5.5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	20Raj1
Conjugate	PE-Cyanine5.5
Excitation/Emission Max	564/692 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2848323

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	10 Publications

## Product Specific Information

**Description:** The monoclonal antibody 20Raj1 recognizes the human Ki-67 protein. Two isoforms of Ki-67 exist, a 345 and 395 kDa form that are expressed in dividing cells. Ki-67 is expressed in all cell types and is detectable during active phases of the cell cycle (G1, S, G2, and mitosis) but is absent from resting cells (G0). During interphase, Ki-67 expression is localized to the nucleus but redistributes to the chromosomes during mitosis and has specifically been found to associate with heterochromatin-bound proteins such as chromobox protein homolog 3 (CBX3). In studies of tumor cells, Ki-67 expression has been used as a marker for determining the fraction of proliferating cells within a given population of tumor cells.

This monoclonal antibody 20Raj1 recognizes canine Ki-67.

**Applications Reported:** This 20Raj1 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

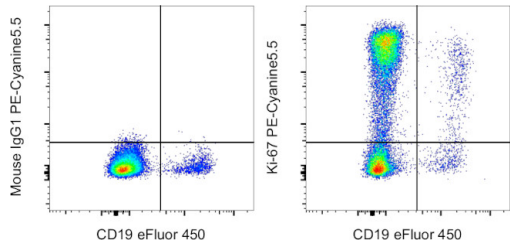
**Applications Tested:** This 20Raj1 antibody has been pre-diluted and tested by intracellular staining followed by flow cytometric analysis of stimulated normal human peripheral blood cells using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Please refer to ""Staining Intracellular Antigens for Flow Cytometry, Protocol B: One step protocol for intracellular (nuclear) proteins"" located at Flow Protocols. This may be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 695 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Product Images For Ki-67 Monoclonal Antibody (20Raj1), PE-Cyanine5.5, eBioscience™



**Ki-67 Antibody (35-5699-42) in Flow**  
Normal human peripheral blood cells were stimulated for 48 hours with immobilized CD3 Monoclonal Antibody, Functional Grade (Product # 16-0037-85) and then stained intracellularly, using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol, with CD19 Monoclonal Antibody, eFluor 450 (Product # 48-0199-42) and Mouse IgG1 kappa Isotype Control, PE-Cyanine5.5 (Product # 35-4714-82) (left) or Ki-67 Monoclonal Antibody, PE-Cyanine5.5 (right). Cells in the lymphocyte gate were used for analysis.

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10 References

Flow Cytometry (10)

Cell reports. Medicine	Year
<b>Protein/AS01<sub>B</sub> vaccination elicits stronger, more Th2-skewed antigen-specific human T follicular helper cell responses than heterologous viral vectors.</b>	2021
"Published figure using Ki-67 monoclonal antibody (Product # 35-5699-42) in Flow Cytometry"	
Authors: Nielsen CM,Ogbe A,Pedroza-Pacheco I,Doeleman SE,Chen Y,Silk SE,Barrett JR,Elias SC,Miura K,Diouf A,Bardelli M,Dabbs RA,Barfod L,Long CA,Haynes BF,Payne RO,Minassian AM,Bradley T,Draper SJ,Borrow P	
The Journal of clinical investigation	Year
<b>Single residue in CD28-costimulated CAR-T cells limits long-term persistence and antitumor durability.</b>	2020
"Published figure using Ki-67 monoclonal antibody (Product # 35-5699-42) in Flow Cytometry"	
Authors: Guedan S,Madar A,Casado-Medrano V,Shaw C,Wing A,Liu F,Young RM,June CH,Posey AD	

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