

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

Product Details	
Size	100 Tests
Species Reactivity	Dog, Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	20Raj1
Conjugate	PE
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10688373

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	7 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.

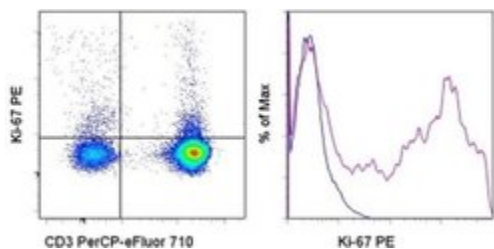
Applications Reported: This 20Raj1 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This 20Raj1 antibody has been pre-titrated and tested by intracellular staining of normal human peripheral blood cells using Fcγ3/Transcription Factor Buffers Set (cat. 00-5523) and protocol. Please see Best Protocols Section (Staining intracellular Antigens for Flow Cytometry) for staining protocol (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This can be used at 5 µL (0.06 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



### Ki-67 Antibody (12-5699-42) in Flow

Staining of unstimulated (left) normal human peripheral blood cells with Anti-Human CD3 PerCP-Cy5-5 (Product # 46-0036-42) and Anti-Human Ki-67. Normal human peripheral blood cells were also stimulated with PHA then stained with Mouse IgG1 K Isotype Control PE (Product # 12-4714-81) (blue) or Anti-Human Ki-67 PE (purple). All staining was done using the Foxp3/Transcription Factor Buffer Set (Product # 00-5523-00) and protocol.

## 7 References

### Flow Cytometry (7)

Frontiers in immunology

#### Therapeutic Cytokine Inhibition Modulates Activation and Homing Receptors of Peripheral Memory B Cell Subsets in Rheumatoid Arthritis Patients.

"12-5699-42 was used in Flow Cytometry to conclude that the three major peripheral memory B cell populations, pre-, post-switch, and double-negative B cells, are activated in RA."

Authors: Mahmood Z, Schmalzing M, Dörner T, Tony HP, Muhammad K

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2021

Current protocols in toxicology

#### In Vitro Evaluation of Toxicant Influences on the Immune System.

"12-5699-42 was used in Flow Cytometry to describe techniques for PBMC culture that can be employed to determine the impact of various environmental toxicants on the immune system."

Authors: Kasten-Jolly J, Lawrence DA

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2020

[View more Flow references on thermofisher.com](#)

## More applications with references on thermofisher.com

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