

Ki-67 Monoclonal Antibody (20Raj1), eFluor™ 450, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Dog, Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	20Raj1
Conjugate	eFluor™ 450
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_10804033

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	11 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 using the Foxp3 Staining Buffers followed by flow cytometric analysis.

Applications Tested: This 20Raj1 antibody has been pre-titrated and tested by intracellular staining using Foxp3/Transcription Factor Buffers Set (cat. 00-5523) and protocol of normal human peripheral blood cells. 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

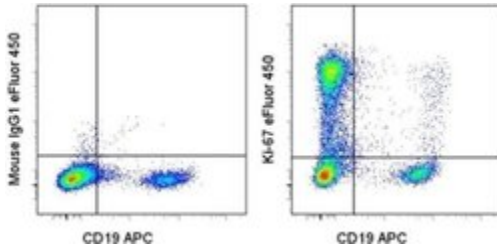
sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For Ki-67 Monoclonal Antibody (20Raj1), eFluor™ 450, eBioscience™



Ki-67 Antibody (48-5699-42) in Flow

Intracellular staining of normal human peripheral blood cells stimulated for 2 days with immobilized Anti-Human CD3 (Product # 16-0037-81) with Anti-Human CD19 APC (Product # 17-0199-42) and Mouse IgG1 K Isotype Control eFluor® 450 (Product # 48-4714-82) (left) or Anti-Human Ki-67 eFluor® 450 (right) using Foxp3 /Transcription Factor Buffers Set (Product # 00-5523-00) and protocol. Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

14 References

Immunohistochemistry (1)

Stem cells (Dayton, Ohio)

Biliary tree stem cells, precursors to pancreatic committed progenitors: evidence for possible life-long pancreatic organogenesis.

"Published figure using Ki-67 monoclonal antibody (Product # 48-5699-42) in Immunofluorescence"

Authors: Wang Y,Lanzoni G,Carpino G,Cui CB,Dominguez-Bendala J,Wauthier E,Cardinale V,Oikawa T,Pileggi A, Gerber D,Furth ME,Alvaro D,Gaudio E,Inverardi L,Reid LM

Species
Not Applicable

Dilution
Not Cited

Year
2013

Immunocytochemistry (2)

Scientific reports

Core Transcription Factors, MicroRNAs, and Small Molecules Drive Transdifferentiation of Human Fibroblasts Towards The Cardiac Cell Lineage.

"Published figure using Ki-67 monoclonal antibody (Product # 48-5699-42) in Immunofluorescence"

Authors: Christoforou N,Chakraborty S,Kirkton RD,Adler AF,Addis RC,Leong KW

Species
Not Applicable

Dilution
Not Cited

Year
2017

Arteriosclerosis, thrombosis, and vascular biology

S100A6 Regulates Endothelial Cell Cycle Progression by Attenuating Antiproliferative Signal Transducers and Activators of Transcription 1 Signaling.

"Published figure using Ki-67 monoclonal antibody (Product # 48-5699-42) in Immunocytochemistry"

Authors: Lerchenmüller C,Heißenberg J,Damilano F,Bezzedis VJ,Krämer I,Bochaton-Piallat ML,Hirschberg K,Busch M, Katus HA,Peppel K,Rosenzweig A,Busch H,Boerries M,Most P

Species
Not Applicable

Dilution
Not Cited

Year
2016

Flow Cytometry (11)

The Journal of clinical investigation

Single residue in CD28-costimulated CAR-T cells limits long-term persistence and antitumor durability.

"Published figure using Ki-67 monoclonal antibody (Product # 48-5699-42) in Flow Cytometry"

Authors: Guedan S,Madar A,Casado-Medrano V,Shaw C,Wing A,Liu F,Young RM,June CH,Posey AD

Species
Not Applicable

Dilution
Not Cited

Year
2020

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

More applications with references on thermofisher.com

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