

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

Product Details	
Size	100 µg
Species Reactivity	Dog, Human
Published Species	Artificial Control, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	20Raj1
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2572796

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	4 Publications
Immunocytochemistry (ICC)	5 µg/mL	1 Publication
Immunofluorescence (IF)	5 µg/mL	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	-
Immunohistochemistry (IHC)	-	2 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.

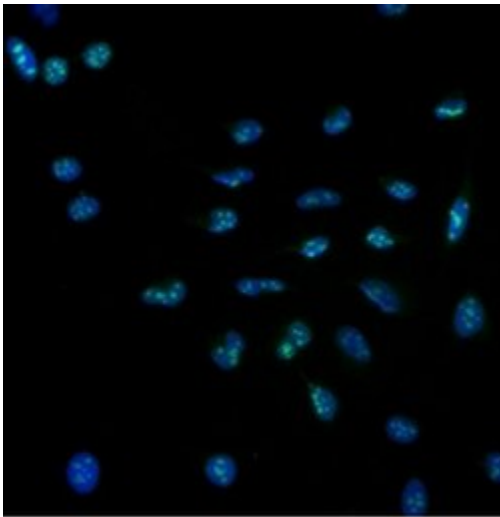
This monoclonal antibody 20Raj1 recognizes canine Ki-67.

Applications Reported: This 20Raj1 antibody has been reported for use in intracellular staining followed by flow cytometric analysis, immunohistochemical staining of formalin-fixed paraffin embedded tissue sections, microscopy, and immunocytochemistry.

Applications Tested: This 20Raj1 antibody has been tested by intracellular staining of normal human peripheral blood cells using the Foxp3/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 less than or equal to 0.125 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. The 20Raj1 antibody has also been tested by immunocytochemistry of fixed and permeabilized cells and can be used at less than or equal to 5 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

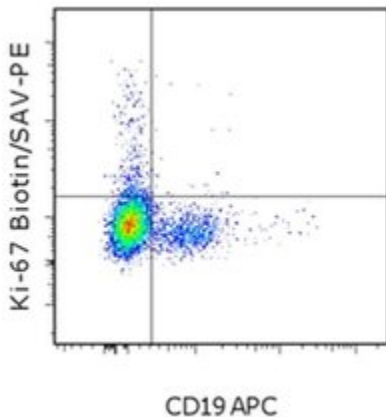
Filtration: 0.2 µm post-manufacturing filtered.

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



### Ki-67 Antibody (13-5699-82) in ICC

Immunocytochemistry of fixed and permeabilized HeLa cells stained with 5 µg/mL of Anti-Human Ki-67 Biotin followed by Streptavidin FITC (Product # 11-4317-87). Nuclei are stained with DAPI, colocalization appears aqua.



### Ki-67 Antibody (13-5699-82) in Flow

Intracellular staining of 1-day Anti-Human CD3 Functional Grade Purified (Product # 16-0037-81)-stimulated normal human peripheral blood cells with Anti-Human CD19 APC (Product # 17-0198-42) and 0.06 µg of Anti-Human Ki-67 Biotin followed by Streptavidin PE (Product # 12-4317-87). Viable cells in the lymphocyte gate were used for analysis.

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

## 10 References

### Immunohistochemistry (2)

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 # 13-5699-82) 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

Cancer medicine

#### Anti-tumor effects of an antagonistic mAb against the ASCT2 amino acid transporter on KRAS-mutated human colorectal cancer cells.

"13-5699 was used in Immunohistochemistry to suggest that ASCT2 is an excellent therapeutic target for KRAS-mutated cancers."

Authors: Hara Y,Minami Y,Yoshimoto S,Hayashi N,Yamasaki A,Ueda S,Masuko K,Masuko T

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2020

### Immunocytochemistry (1)

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 # 13-5699-82) in Immunocytochemistry"

Authors: Lerchenmüller C,Heißenberg J,Damilano F,Bezzlerid 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

### Immunofluorescence (3)

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 # 13-5699-82) in Immunocytochemistry"

Authors: Lerchenmüller C,Heißenberg J,Damilano F,Bezzlerid 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

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### More applications with references on thermofisher.com

### Flow (4)

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