
Anti-Human Ki-67 eFluor[®] 615

Catalog Number: 42-5699

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information



Contents: Anti-Human Ki-67 eFluor[®] 615

Catalog Number: 42-5699

Clone: 20Raj1

Concentration: 0.2 mg/mL

Host/Isotype: Mouse IgG1, kappa



LOT



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

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 immunocytochemical and immunohistochemical staining of paraffin-embedded tissue (IHC-P).

Applications Tested

This 20Raj1 antibody has been tested by immunocytochemistry on formaldehyde-fixed and permeabilized HeLa cells, and immunohistochemistry on FFPE human skin using low pH antigen retrieval. For immunocytochemistry and immunohistochemistry, this can be used at less than or equal to 1 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filter Recommendation: When using this eFluor[®] 615 antibody conjugate, we recommend a filter that will capture the 615 emission wavelength. A standard Alexa Fluor[®] 594 filter is acceptable.

References

Heidebrecht HJ, Buck F, Endl E, Kruse ML, Adam-Klages S, Andersen K, Frahm SO, Schulte C, Wacker HH, Parwaresch R. Ki-Mcm6, a new monoclonal antibody specific to Mcm6: comparison of the distribution profile of Mcm6 and the Ki-67 antigen. *Lab Invest.* 2001 Aug;81(8):1163-5.

Schlüter C, Duchrow M, Wohlenberg C, Becker MH, Key G, Flad HD, Gerdes J. The cell proliferation-associated antigen of antibody Ki-67: a very large, ubiquitous nuclear protein with numerous repeated elements, representing a new kind of cell cycle-maintaining proteins. *J Cell Biol.* 1993 Nov;123(3):513-22.

Rishi M, Schwarting R, Kovatich AJ, Ehya H. Detection of growth fraction in tumors by Ki-67 monoclonal antibody in cytologic smears: a prospective study of 40 cases. *Diagn Cytopathol.* 1993;9(1):52-6; discussion 57-8.

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Gerdes J, Lemke H, Baisch H, Wacker HH, Schwab U, Stein H. Cell cycle analysis of a cell proliferation-associated human nuclear antigen defined by the monoclonal antibody Ki-67. *J Immunol.* 1984 Oct;133(4):1710-5.

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Related Products

00-4952 IHC/ICC Blocking Buffer - High Protein

00-4954 20X TBS Wash Buffer for IHC/ICC

00-4955 IHC Antigen Retrieval Solution – Low pH (10X)

00-4958 Fluoromount-G™

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