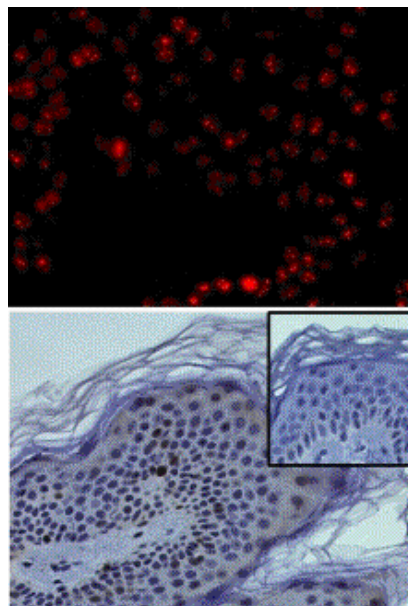


Anti-Human Ki-67 Purified

Catalog Number: 14-5699

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



Immunocytochemistry of fixed and permeabilized MCF-7 cells using 1 ug/ml of Anti-Human Ki-67 Purified followed by Anti-Mouse IgG TRITC (top). Immunohistochemistry on formalin-fixed paraffin embedded human skin using 1 ug/ml of Anti-Human Ki-67 Purified (bottom) or Mouse IgG1 kappa Isotype Control Purified (cat. 14-4714) (inset, bottom) followed by Anti-Mouse IgG Biotin, and DAB visualization. Nuclei are counterstained with hematoxylin.

Product Information

Contents: Anti-Human Ki-67 Purified

REF **Catalog Number:** 14-5699

Clone: 20Raj1

Concentration: 0.5 mg/mL

Host/Isotype: Mouse IgG1

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

Temperature Limitation: Store at 2-8°C.

LOT **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 (dog) Ki-67.

Applications Reported

This 20Raj1 antibody has been reported for use in immunocytochemistry and immunohistochemistry on formalin-fixed paraffin embedded tissues.

Applications Tested

This 20Raj1 antibody has been tested by immunocytochemistry on paraformaldehyde fixed and permeabilized MCF-7, MDCK, and MDA-MB-175 cell lines.

This 20Raj1 antibody has been tested by immunohistochemistry on FFPE human skin using citrate buffer antigen retrieval. For immunocytochemistry and immunohistochemistry, this can be used at less than or equal to 0.5-1 µg/ml. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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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.

Related Products

14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)

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