



Ki-67 (PP-67): sc-56320

BACKGROUND

Ki-67 is a nuclear protein that is expressed in proliferating cells and may be required for maintaining cell proliferation. Ki-67 has been used as a marker for cell proliferation of solid tumors and some hematological malignancies. A correlation has been demonstrated between Ki-67 index and the histopathological grade of neoplasms. Assessment of Ki-67 expression in renal and ureter tumors shows a correlation between tumor proliferation and disease progression, thus making it possible to differentiate high-risk patients. Ki-67 expression may also prove to be important for distinguishing between malignant and benign peripheral nerve sheath tumors.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MKI67 (human) mapping to 10q25-qter; Mki67 (mouse) mapping to 7 F3-F5.

SOURCE

Ki-67 (PP-67) is a mouse monoclonal antibody raised against nuclear HeLa cell preparation.

PRODUCT

Each vial contains 500 µl ascites containing IgM in PBS with < 0.1% sodium azide.

APPLICATIONS

Ki-67 (PP-67) is recommended for detection of Ki-67 of human origin by Western Blotting (starting dilution to be determined by researcher, dilution range 1:10-1:200), immunofluorescence and immunohistochemistry (including paraffin-embedded sections) (starting dilution to be determined by researcher, dilution range 1:10-1:200); may cross-react with proliferating cells in frozen human tissue and in formalin-fixed, paraffin-embedded tissue.

Suitable for use as control antibody for Ki-67 siRNA (h): sc-37613.

Molecular Weight of Ki-67 isoforms: 395/345 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Raji whole cell lysate or human normal tonsil tissue.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgM-HRP: sc-2064 (dilution range: 1:500-1:5,000), TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-mouse IgM-FITC: sc-2082 (dilution range: 1:100-1:400) or goat anti-mouse IgM-TR: sc-2983 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.