**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**


**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.

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**REFERENCES**


**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.