Ki-67 (Ki-67): sc-23900

**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.

**CHROMOSOMAL LOCATION**

Genetic locus: MKI67 (human) mapping to 10q26.2.

**SOURCE**

Ki-67 (Ki-67) is a mouse monoclonal antibody raised against nuclear fractions of human tumor cell line, L428.

**PRODUCT**

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Ki-67 (Ki-67) is available conjugated to agarose (sc-23900 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-23900 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-23900 PE), fluorescein (sc-23900 FITC), Alexa Fluor® 488 (sc-23900 AF488), Alexa Fluor® 546 (sc-23900 AF546), Alexa Fluor® 594 (sc-23900 AF594) or Alexa Fluor® 647 (sc-23900 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-23900 AF680) or Alexa Fluor® 790 (sc-23900 AF790), 200 µg/ml, for Near-Infrared (NIR) IF, IF and FCM.

In addition, Ki-67 (Ki-67) is available conjugated to either PerCP (sc-23900 PerCP) or PerCP-Cy5.5 (sc-23900 PCPC5), 100 tests in 2 ml, for IF, IHC(P) and FCM.

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**APPLICATIONS**

Ki-67 (Ki-67) is recommended for detection of Ki-67 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation[1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for Ki-67 siRNA (h): sc-37613, Ki-67 shRNA Plasmid (h): sc-37613-SH and Ki-67 shRNA (h) Lentiviral Particles: sc-37613-V.

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

Positive Controls: Raji whole cell lysate: sc-384236.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

Ki-67 (Ki-67): sc-23900. Western blot analysis of Ki-67 expression in Raji whole cell lysate.

Ki-67 (Ki-67): sc-23900. Immunofluorescence staining of formalin-fixed Hela cells showing nucleolar and nuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human lymph node tissue showing nuclear staining of cells in germinal center (B).

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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