

Instructions For Use

RA0648-C-IFU-RUO

Rev. Date: May 7, 2024

Revision: 1

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P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Tel. (435) 755-9848 - Fax (435) 755-0015 - www.scytek.com

Ki-67 (Proliferating Cell Marker); Clone MKI67/2465

(Concentrate)

Availability/Contents: <u>Item #</u> <u>Volume</u>

RA0648-C.1 0.1 ml RA0648-C.5 0.5 ml RA0648-C1 1 ml

Description:

Species: Mouse

Immunogen: Recombinant fragment (around aa 2293-2478) of human Ki67 protein (exact sequence is

proprietary)

Clone: MKI67/2465 Isotype: IgG2b Entrez Gene ID: 4288 Hu Chromosome Loc.: 10q26.2

Synonyms: Proliferation marker protein Ki-67, Antigen identified by monoclonal antibody Ki-67, KI-67; Ki67;

KI-67 Antigen (KIA); MKI67; Proliferation related Ki-67 antigen

Mol. Weight of Antigen: 345kDa and 395kDa

Format: 200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM

PBS with 0.05% BSA & 0.05% azide.

Specificity: Recognizes a protein identified as Ki-67.

Background: Ki-67 antigen is a nuclear, non-histone protein that is present in all stages of the cell cycle

except G0. This characteristic makes Ki-67 an excellent marker for proliferating cells and is commonly used as one of the prognostic factors in cancer studies. A correlation has been demonstrated between Ki-67 index and the histo-pathological 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. Ki-67 labeling index has been shown to be a prognostic marker in a number of neoplasms including grade II astrocytoma, oligodendroglioma, colon carcinoma, and breast carcinoma. In general, Ki-67 is a good marker of proliferating cell populations.

Species Reactivity: Human

Positive Control: Any actively proliferating cells. Human skin.

Cellular Localization: Chromosome, Nucleolus, Nucleus

Titer/ Working Dilution: Immunohistochemistry (Frozen and Formalin-fixed): 1-2 µg/ml

Flow Cytometry: 1-2 µg/million cells

Immunofluorescence: 1-3 µg/ml

Microbiological State: This product is not sterile.

Storage: 2° C 8° C

ScyTek Laboratories, Inc. 205 South 600 West Logan, UT 84321 U.S.A.



Instructions For Use RA0648-C-IFU-RI

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Uses/Limitations: Not to be taken internally.

For Research Use Only.

This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded

tissue sections, to be viewed by light

microscopy.

Do not use if reagent becomes cloudy. Do not use past expiration date.

Non-Sterile.

Ordering Information and Current Pricing at www.scytek.com

Procedure:

1. Tissue Section Pretreatment (Highly Recommended): Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Tris-EDTA HIER Solution (10x) pH 9.0 (ScyTek catalog# TES500) or Citrate Plus (10x) HIER Solution (ScyTek catalog# CPL500).

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- 2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.
- 3. Visualization: For maximum staining intensity we recommend the "UltraTek HRP Anti-Polyvalent Lab Pack" (ScyTek catalog# UHP125, see IFU for instructions) combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).

Precautions: Contains Sodium Azide as a preservative (0.09% w/v).

Do not pipette by mouth.

Avoid contact of reagents and specimens with skin and mucous membranes.

Avoid microbial contamination of reagents or increased nonspecific staining may occur.

This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200,

OSHA Hazardous Communication Standard and EC Directive 91/155/EC.

References:

- Gerdes J,et al.1984.J. Immunol.133:1710
- Schluter C, et al. 1993 J. Cell Biol. 123:513

Warranty:

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Storage: 2° C

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