

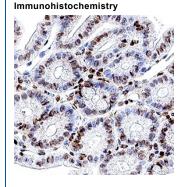
Mouse Ki67/MKI67 Antibody

Monoclonal Mouse IgG_{2A} Clone # 1088403 Catalog Number: MAB11612

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects a synthetic peptide specific for mouse Ki-67 around amino acid 1185 in Direct ELISA.
Source	Monoclonal Mouse IgG _{2A} Clone # 1088403
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic Peptide
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

APPLICATIONS Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website. Recommended Concentration Immunocytochemistry 3-25 µg/mL Immersion fixed RAW264.7 cells Immunohistochemistry 3-25 µg/mL Immersion fixed paraffin-embedded

DAIA



Detection of Ki67/MKI67 in Mouse Colon, Ki67/MKI67 was detected in immersion fixed paraffin-embedded sections of mouse colon using Mouse Anti-Mouse Ki67/MKI67 Monoclonal Antibody (Catalog # MAB11612) at 5 μ g/ml overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using the HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005) and counterstained with hematoxylin (blue). Specific staining was localized to the nucleus. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

Immunocytochemistry

Detection of Ki67/MKI67 in Raw264.7. Ki67/MKI67 was detected in immersion fixed RAW264.7 cells using Mouse Anti-Mouse Ki67/MKI67 Monoclonal Antibody (Catalog # MAB11612) at 8 µg/ml for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to the nucleus. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

sections of Mouse Colon

PREPARATION AND STORAGE	
Reconstitution	Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month 2 to 8 °C under sterile conditions after reconstitution

BACKGROUND

MKI67 (also Ki67 and TSG126) is a 350-370 kDa nuclear protein that belongs to a molecular group comprised of mitotic chromosome-associated proteins. Ki67 was originally recognized as an antigen associated with the monoclonal Ki67 antibody raised against Hodgkin's lymphoma nuclear material. Ki67 is contextually expressed, being potentially found in all cells that are not in the Go phase of the cell cycle. Thus, MKI67 qualifies as a cell proliferation marker. Functionally, Ki67 is known to interact with 160 kDa Hklp2, a protein that promotes centrosome separation and spindle bipolarity. It also directly interacts with NIFK, and apparently binds to UBF, thus playing a role in rRNA synthesis. Mouse MKI67 is 3177 amino acids (aa) in length. It contains one FHA domain (aa 8-101), followed by sixteen 120 aa repeats (aa 993-2872). There are two potential isoform variants. One isoform shows a 19 aa substitution for 1120-3177, while a second isoform contains a deletion of aa 1169-1409. Over aa 3053-3177, mouse Ki67 shares 46% and 74% aa sequence identity with the human and rat orthologs to Ki67, respectively.

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