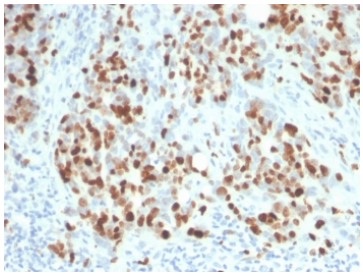
Recombinant Ki67 Antibody Mouse Monoclonal rMKI67/6615 / MKI67 Antibody [clone rMKI67/6615] (V9283)

Catalog No.	Formulation	Size
V9283-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9283-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9283SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

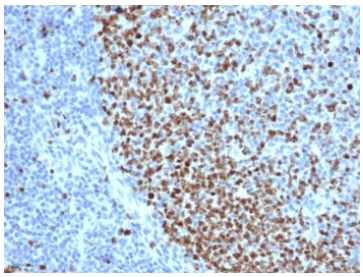
Recombinant MOUSE MONOCLONAL

Bulk quote request

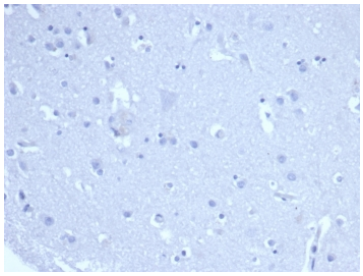
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rMKI67/6615
Purity	Protein A/G affinity
UniProt	P46013
Localization	Nuclear
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This recombinant Ki67 antibody is available for research use only.



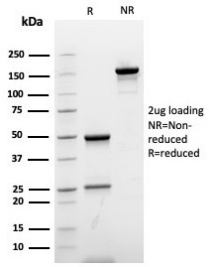
Recombinant Ki67 Antibody Mouse Monoclonal rMKI67/6615 / MKI67 Antibody. Immunohistochemistry analysis of FFPE human lymph node tissue using recombinant Ki67 antibody mouse monoclonal rMKI67/6615. Strong nuclear brown staining is observed in numerous proliferating lymphoid cells within germinal center regions, consistent with the known expression pattern of Ki-67 / MKI67 in actively dividing cells. Surrounding lymphocytes with lower proliferative activity show reduced staining. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to staining.



Recombinant Ki67 Antibody Mouse Monoclonal rMKI67/6615 / MKI67 Antibody. Immunohistochemistry analysis of FFPE human tonsil tissue using recombinant Ki67 antibody mouse monoclonal rMKI67/6615. Strong nuclear brown staining is observed in numerous proliferating lymphoid cells within the tonsillar germinal center, consistent with the known expression pattern of Ki-67 / MKI67 in actively dividing cells. Surrounding lymphoid regions with lower proliferative activity show comparatively reduced staining. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to staining.



Negative control: IHC staining of FFPE human brain tissue with recombinant Ki67 antibody (clone rMKI67/6615) at 2ug/ml in PBS for 30min RT. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant Ki67 antibody (clone rMKI67/6615) as confirmation of integrity and purity.

Description

Ki-67 antigen (MKI67) is a nuclear proliferation-associated protein encoded by the MKI67 gene and widely used as a marker of actively cycling cells. Recombinant Ki67 Antibody Mouse Monoclonal rMKI67/6615 recognizes this well-established proliferation marker and supports detection of Ki-67 protein expression in studies focused on cell cycle progression, tumor growth, and proliferative signaling pathways. Because Ki-67 expression closely correlates with the cell cycle, detection of this protein is commonly used to evaluate cellular proliferation in cultured cells and tissue samples.

Ki67 antibody, also referred to as Ki-67 antibody or MKI67 antibody in the literature, detects a nuclear protein expressed during the G1, S, G2, and mitotic phases of the cell cycle but largely absent in quiescent cells in the G0 phase. This restricted expression pattern makes Ki-67 one of the most widely used markers of proliferating cells. Detection of Ki-67 allows investigators to distinguish actively cycling cells from resting cell populations within the same tissue or culture system.

Ki-67 participates in chromatin organization during cell division and exhibits dynamic localization throughout the cell cycle. During interphase the protein is localized within the nucleus and often associated with nucleolar regions. As cells enter mitosis, Ki-67 redistributes to the perichromosomal layer that surrounds condensed chromosomes, contributing to the maintenance of chromosome organization during mitotic progression.

Elevated Ki-67 expression is frequently observed in rapidly proliferating cell populations, including many cancer cell types. Because of this strong association with cellular proliferation, Ki-67 protein levels are commonly evaluated in studies of tumor biology, tissue regeneration, and cell cycle regulation. Detection of Ki-67 can provide insight into growth dynamics and the effects of treatments that influence cell cycle progression.

Recombinant Ki67 Antibody Mouse Monoclonal rMKI67/6615 supports detection of the Ki-67 / MKI67 proliferation marker in research applications focused on proliferative activity and cell cycle biology. This recombinant mouse monoclonal

antibody enables investigators to analyze Ki-67 expression patterns and evaluate proliferating cell populations in experimental systems.

Application Notes

Optimal dilution of the Recombinant Ki67 Antibody Mouse Monoclonal rMKI67/6615 should be determined by the researcher.

Immunogen

A portion of amino acids 2293-2478 was used as the immunogen for the recombinant Ki67 antibody.

Storage

Aliquot the recombinant Ki67 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Ki67 antibody, Ki-67 antibody, MKI67 antibody, Antigen KI-67 antibody, Ki-67 proliferation marker antibody

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