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Datasheet for 900-C01-B38

Ki-67 Antibody

Overview

Description:	Anti-Ki-67 (RABBIT) Monoclonal Antibody - 900-C01-B38
Item No.:	900-C01-B38
Size:	100 µL
Applications:	IHC
Reactivity:	H. sapiens (Human), Rattus (Rat)
Host Species:	Rabbit

Product Details

Background:	The MKI67 gene encodes a nuclear protein termed Ki-67 that is associated with and may be necessary for cellular proliferation. Alternatively spliced transcript variants have been described. A related pseudogene exists on chromosome X. Two isoforms have been reported, with isoform 1 transcribed as the longer transcript. Ki-67 is a nuclear protein predominantly localized in the G1 phase in the perinucleolar region. In later phases it is also detected throughout the nuclear interior, being predominantly localized in the nuclear matrix. In mitosis, it is present on all chromosomes.
Synonyms:	rabbit anti-Ki-67 Antibody, MKI67, Ki-67 nuclear protein
Host Species:	Rabbit
Clonality:	Monoclonal
Clone ID:	SP6
Format:	CCS

Target Details

Gene Name:	MKI67
Reactivity:	H. sapiens (Human), Rattus (Rat)
Immunogen Type:	Conjugated Peptide

Immunogen:	This monoclonal antibody was produced by repeated immunizations with a synthetic peptide corresponding to the carboxy terminus of human Ki-67 protein. The hybridoma was produced by fusing New Zealand White rabbit splenocytes and myeloma cells using conventional technology.
Purity/Specificity:	This product is clarified tissue culture supernatant. The antibody is specific for human Ki-67 protein. Cross-reactivity occurs with rat Ki-67. Cross reactivity with Ki-67 protein from other sources has not been determined.
Relevant Links:	• NCBI - CAI16903.1 • UniProtKB - P46013 • GeneID - 4288

Application Details

Tested Applications:	IHC
Application Note:	This monoclonal antibody contains TBS/1% BSA. Anti-Ki-67 has been tested with IHC and is suitable for ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 345 and 395 kDa in size corresponding to Ki-67 protein by western blotting in the appropriate cell lysate or extract. For immunohistochemistry, samples should be formalin fixed and paraffin embedded. Deparaffinize slides using xylene or xylene alternatives and graded alcohols. Staining requires boiling of sections in 10 mM citrate buffer pH 6.0 for 10 min followed by cooling at RT for 20 min. Ki-67 is a nuclear protein. Tonsil tissue can be used as a positive control.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IHC:	1:200
WB:	1:200-1:500

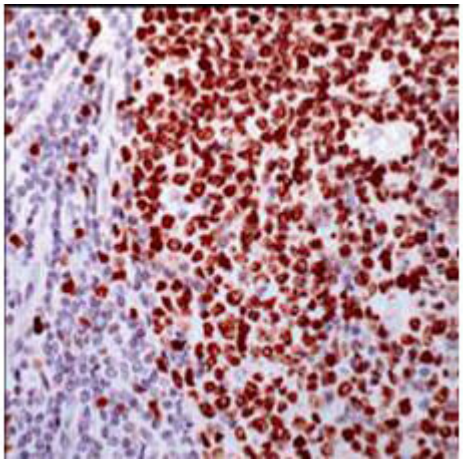
Formulation

Physical State:	Liquid (sterile filtered)
Buffer:	See application note.
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

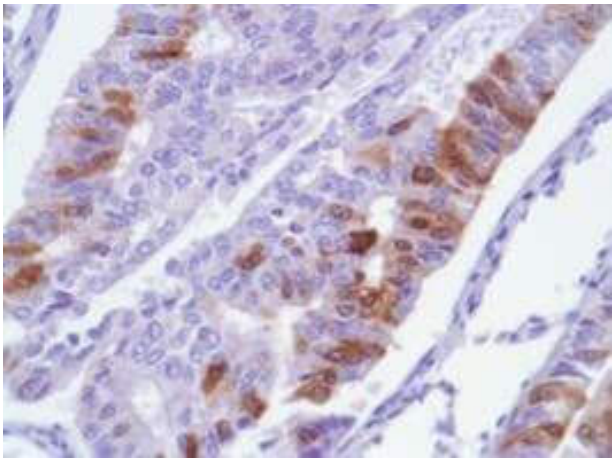
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store at 2-8°C. Do not freeze. The user must validate any other storage conditions. When properly stored, the reagent is stable to the date indicated on the label. Do not use the reagent beyond the expiration date.
Expiration:	Expiration date is one (1) year from date of receipt.

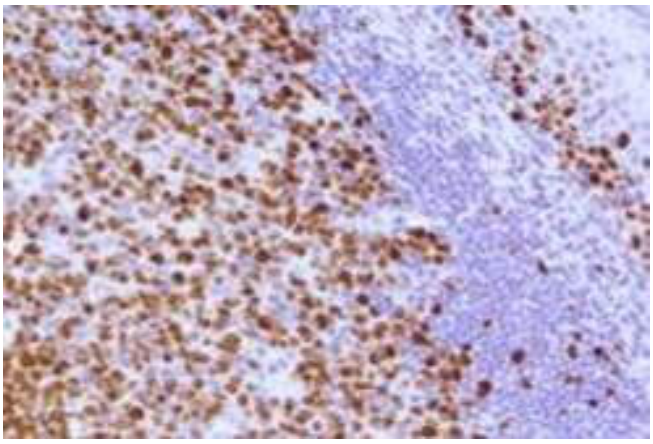
Images



Immunohistochemistry
Rockland's anti-Ki-67 monoclonal antibody (Rabbit) was used to detect Ki-67 protein in normal human tonsil tissue. Tissue was formalin-fixed and paraffin embedded. Staining requires boiling of sections in 10 mM citrate buffer pH 6.0 for 10 min followed by cooling at RT for 20 min. The primary antibody was diluted 1:200 and reacted with tissue for 30 min at RT.



Immunohistochemistry
Anti-Ki-67 antibody stains Human Endometrial Adenocarcinoma



Immunohistochemistry
Anti-Ki-67 antibody stains Human Tonsil

References

- Moon et al. Melanocyte Stem Cell Activation and Translocation Initiate Cutaneous Melanoma in Response to UV Exposure. *Cell Stem Cell* (2017)

Disclaimer

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