

Anti-Ki67 MKI67 Rabbit Monoclonal Antibody
Catalog # ABO13385

Specification

Anti-Ki67 MKI67 Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IF, ICC, FC
Primary Accession	P46013
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

Description

Anti-Ki67 MKI67 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human.

Anti-Ki67 MKI67 Rabbit Monoclonal Antibody - Additional Information

Gene ID 4288

Other Names

Proliferation marker protein Ki-67, Antigen identified by monoclonal antibody Ki-67, Antigen KI-67, Antigen Ki67, MKI67 ([HGNC:7107](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=7107))

Calculated MW

358694 MW KDa

Application Details

WB 1:500-1:2000
IHC 1:50-1:200
ICC/IF 1:50-1:200
FC 1:50

Subcellular Localization

Nucleus. Nucleus, nucleolus. Chromosome. Predominantly localized in the G1 phase in the perinucleolar region, in the 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.

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human Ki67

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for

up to one month. Avoid repeated freeze-thaw cycles.

Anti-Ki67 MKI67 Rabbit Monoclonal Antibody - Protein Information

Name MKI67 ([HGNC:7107](#))

Function

Required to maintain individual mitotic chromosomes dispersed in the cytoplasm following nuclear envelope disassembly (PubMed:[27362226](http://www.uniprot.org/citations/27362226)). Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the chromosome surface (PubMed:[27362226](http://www.uniprot.org/citations/27362226)). Prevents chromosomes from collapsing into a single chromatin mass by forming a steric and electrostatic charge barrier: the protein has a high net electrical charge and acts as a surfactant, dispersing chromosomes and enabling independent chromosome motility (PubMed:[27362226](http://www.uniprot.org/citations/27362226)). Binds DNA, with a preference for supercoiled DNA and AT-rich DNA (PubMed:[10878551](http://www.uniprot.org/citations/10878551)). Does not contribute to the internal structure of mitotic chromosomes (By similarity). May play a role in chromatin organization (PubMed:[24867636](http://www.uniprot.org/citations/24867636)). It is however unclear whether it plays a direct role in chromatin organization or whether it is an indirect consequence of its function in maintaining mitotic chromosomes dispersed (Probable).

Cellular Location

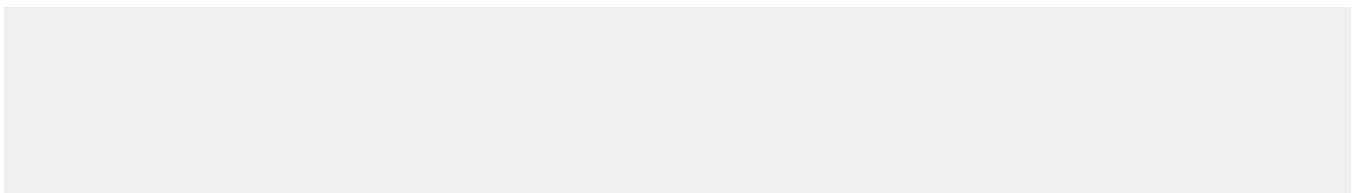
Chromosome. Nucleus. Nucleolus Note=Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the mitotic chromosome surface (PubMed:27362226). Associates with satellite DNA in G1 phase (PubMed:9510506). Binds tightly to chromatin in interphase, chromatin-binding decreases in mitosis when it associates with the surface of the condensed chromosomes (PubMed:15896774, PubMed:22002106). Predominantly localized in the G1 phase in the perinucleolar region, in the later phases it is also detected throughout the nuclear interior, being predominantly localized in the nuclear matrix (PubMed:22002106).

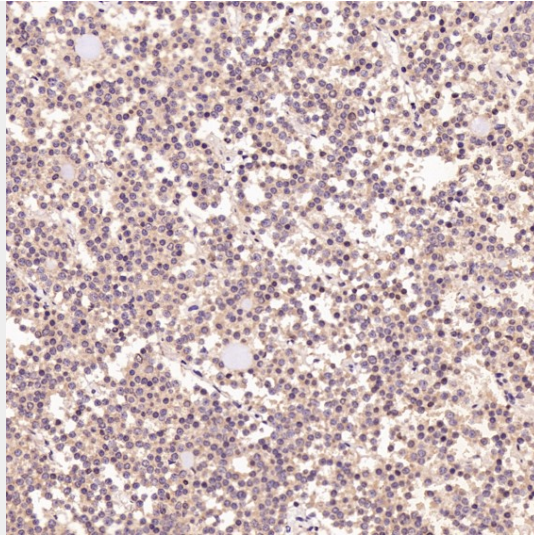
Anti-Ki67 MKI67 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

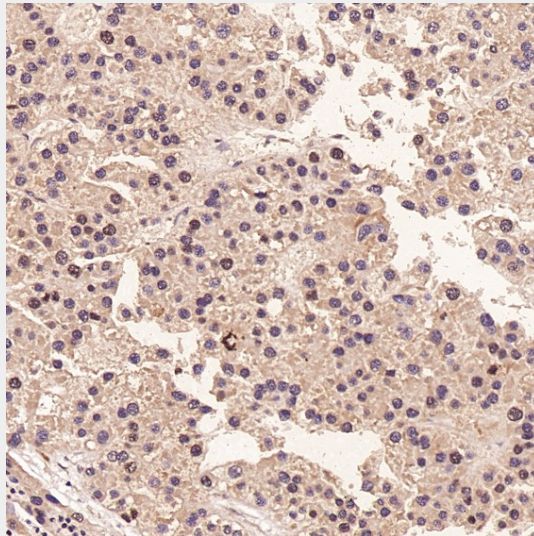
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Ki67 MKI67 Rabbit Monoclonal Antibody - Images

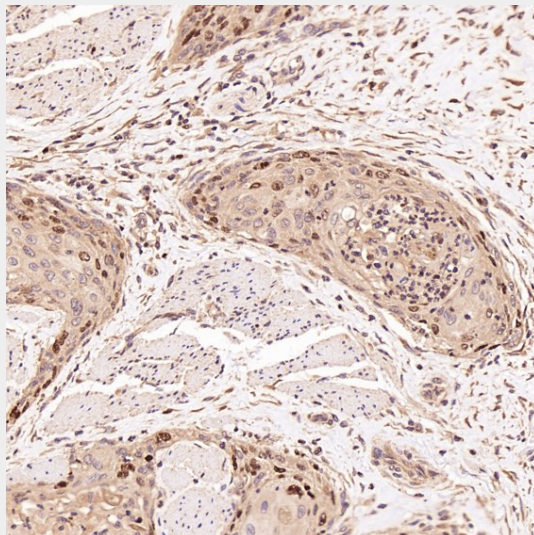




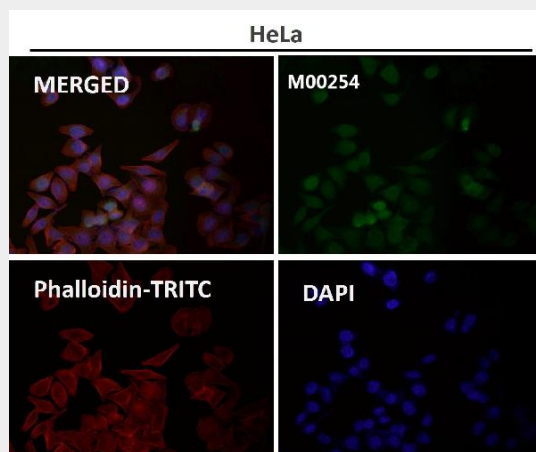
Immunohistochemical analysis of paraffin-embedded Human pituitary tumor, using the Antibody at 1:3000 dilution.



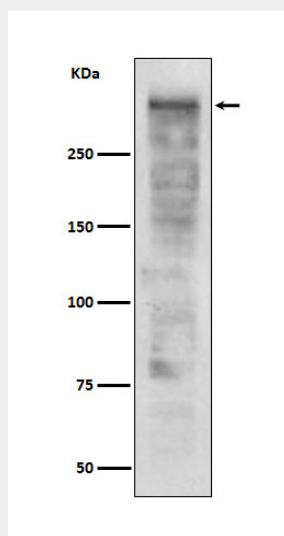
Immunohistochemical analysis of paraffin-embedded Human liver cancer, using the Antibody at 1:3000 dilution.



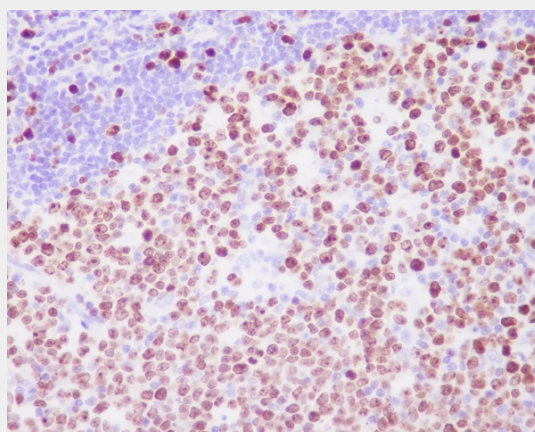
Immunohistochemical analysis of paraffin-embedded Human esophageal carcinoma, using the Antibody at 1:3000 dilution.



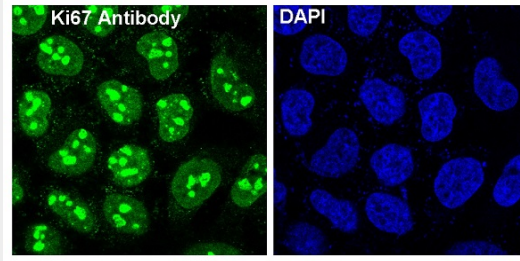
Immunofluorescent analysis using the Antibody at 1:500 dilution.



Western blot analysis of Ki67 expression in Ramos cell lysate.



Immunohistochemical analysis of paraffin-embedded human tonsil, using Ki67 Antibody.



Immunofluorescent analysis of HeLa cells, using Ki67 Antibody.