

Ki-67 / MKI67 Antibody (C-Term)
Peptide-affinity purified goat antibody
Catalog # AF2466a

Specification

Ki-67 / MKI67 Antibody (C-Term) - Product Information

Application	E
Primary Accession	P46013
Other Accession	NP_002408.3 , 4288
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	358694

Ki-67 / MKI67 Antibody (C-Term) - Additional Information

Gene ID 4288

Other Names

Antigen KI-67, MKI67

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Ki-67 / MKI67 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Ki-67 / MKI67 Antibody (C-Term) - Protein Information

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

Function

Required to maintain individual mitotic chromosomes dispersed in the cytoplasm following nuclear envelope disassembly (PubMed: <http://www.uniprot.org/citations/27362226> target="_blank">27362226). Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the chromosome surface (PubMed: <http://www.uniprot.org/citations/27362226> target="_blank">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: <a

[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. 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).

Ki-67 / MKI67 Antibody (C-Term) - 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](#)

Ki-67 / MKI67 Antibody (C-Term) - Images

Ki-67 / MKI67 Antibody (C-Term) - References

Ki-67 expression and patients survival in lung cancer: systematic review of the literature with meta-analysis. Martin B, Paesmans M, Mascaux C, Berghmans T, Lothaire P, Meert AP, Lafitte JJ, Sculier JP. Br J Cancer. 2004 Dec 13;91(12):2018-25. PMID: 15545971