

MKI67 / Ki67 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS13887**Specification**

MKI67 / Ki67 Antibody (Internal) - Product Information

Application	IHC
Primary Accession	P46013
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	359kDa KDa

MKI67 / Ki67 Antibody (Internal) - Additional Information**Gene ID** 4288**Other Names**

Antigen KI-67, MKI67

Target/Specificity

middle of Ki67 protein

Reconstitution & Storage

Stable for 24 months when stored at 2-8°C.

Precautions

MKI67 / Ki67 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

MKI67 / Ki67 Antibody (Internal) - 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))

target="_blank">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

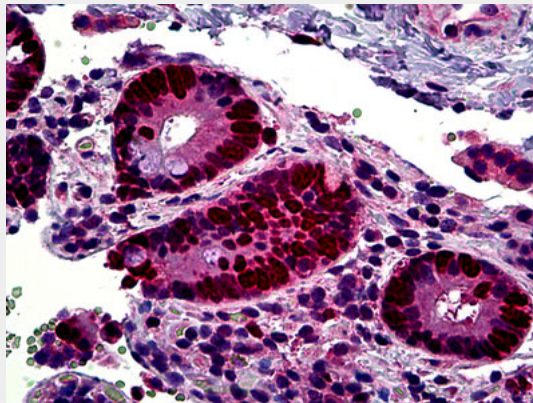
Chromosome. Nucleus. Nucleolus Note=Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the mitotic chromosome surface (PubMed:27362226). Associates with satellite DNA in G1 phase (PubMed:9510506). Binds tightly to chromatin in interphase, 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).

MKI67 / Ki67 Antibody (Internal) - 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](#)

MKI67 / Ki67 Antibody (Internal) - Images



Anti-MKI67 / Ki-67 antibody IHC of human small intestine.

MKI67 / Ki67 Antibody (Internal) - Background

Thought to be required for maintaining cell proliferation.

MKI67 / Ki67 Antibody (Internal) - References

Schlueter C., et al. J. Cell Biol. 123:513-522(1993).
Deloukas P., et al. Nature 429:375-381(2004).
Gerdes J., et al. Submitted (MAR-1997) to the EMBL/GenBank/DDBJ databases.
Sueishi M., et al. J. Biol. Chem. 275:28888-28892(2000).

Takagi M.,et al.J. Biol. Chem. 276:25386-25391(2001).