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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). Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the chromosome surface (PubMed: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). Binds DNA, with a preference for supercoiled DNA and AT-rich DNA (PubMed:10878551). Does not contribute to the internal structure of mitotic chromosomes (By similarity). May play a role in chromatin organization (PubMed:<a href="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).

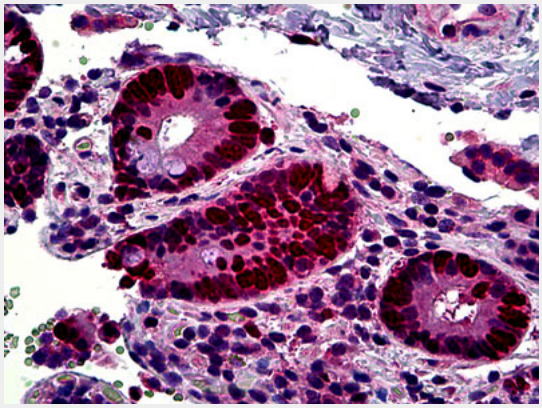
Cellular Location
Chromosome. Nucleus. Nucleus, nucleolus Note=Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the mitotic chromosome surface (PubMed:27362226). Associates with satellite DNA in G1 phase (PubMed:9510506). Binds tightly 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 Cytomety
- 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).

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