

**Anti-KI67 Rabbit Monoclonal Antibody**  
**Rabbit Monoclonal Antibody**  
**Catalog # ABV11829****Specification**

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**Anti-KI67 Rabbit Monoclonal Antibody - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">P46013</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	358694

**Anti-KI67 Rabbit Monoclonal Antibody - Additional Information****Gene ID 4288**

Positive Control	WB: HeLa and K562 cell lysate; IHC: human breast cancer and tonsil tissue
Application & Usage	IHC: 1:100 - 1:400 dilution ; WB: 1:100 - 1:500 dilution
Alias Symbol	MKI67
<b>Other Names</b>	
KIA, KI-67, MKI67	

**Appearance**  
Colorless liquid**Formulation**  
In 50% Glycerol/PBS with 1% BSA and 0.09% sodium azide**Reconstitution & Storage**  
-20 °C**Background Descriptions****Precautions**

Anti-KI67 Rabbit Monoclonal Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-KI67 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:<a href="http://www.uniprot.org/citations/27362226" target="\_blank">27362226</a>). Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the chromosome surface (PubMed:<a href="http://www.uniprot.org/citations/27362226" target="\_blank">27362226</a>). 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 href="http://www.uniprot.org/citations/27362226" target="\_blank">27362226</a>). Binds DNA, with a preference for supercoiled DNA and AT-rich DNA (PubMed:<a href="http://www.uniprot.org/citations/10878551" target="\_blank">10878551</a>). 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</a>). 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

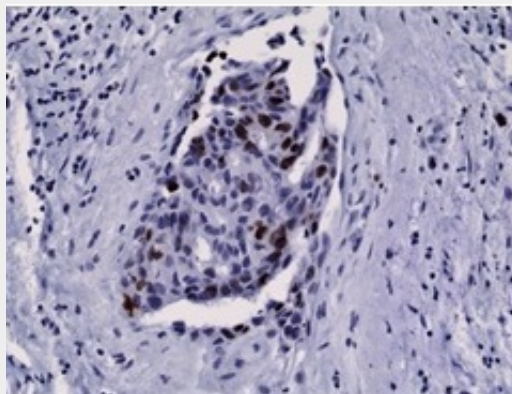
Chromosome. Nucleus. Nucleus, nucleolus Note=Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the mitotic chromosome surface (PubMed:27362226). Associates with satellite DNA in G1 phase (PubMed:9510506). Binds tightly to chromatin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

### Anti-KI67 Rabbit Monoclonal Antibody - Protocols

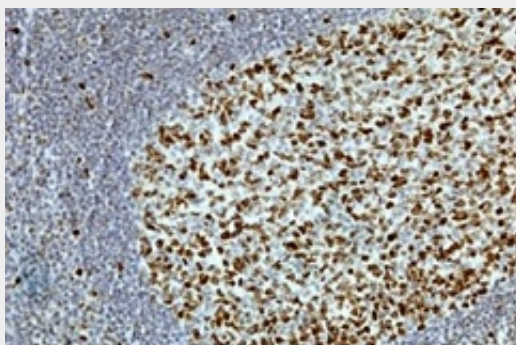
Provided below are standard protocols that you may find useful for product applications.

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

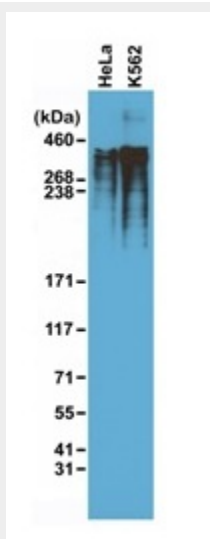
### Anti-KI67 Rabbit Monoclonal Antibody - Images



Immunohistochemical staining of FFPE human breast cancer tissue sections, using anti-Human KI67 Rabbit Monoclonal antibody.



Immunohistochemical staining of FFPE human tonsil tissue sections, using anti-human KI67 rabbit monoclonal antibody.



Western blot of HeLa and K562 cell lysates using anti-KI67 rabbit monoclonal antibody.

#### **Anti-KI67 Rabbit Monoclonal Antibody - Background**

Ki-67 is a nuclear protein that is expressed in proliferating cells and may be required for maintaining cell proliferation. Ki-67 has been used as a marker for cell proliferation of solid tumors and some hematological malignancies. A correlation has been demonstrated between Ki-67 index and the histopathological grade of neoplasms. Assessment of Ki-67 expression in renal and ureter tumors shows a correlation between tumor proliferation and disease progression, thus making it possible to differentiate high-risk patients. Ki-67 expression may also prove to be important for distinguishing between malignant and benign peripheral nerve sheath tumors.