

**Recombinant ki-67 antibody [176B3C4]
Catalog # AP80071****Specification****Recombinant ki-67 antibody [176B3C4] - Product Information**

Application	IHC-P,E
Primary Accession	P46013
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	358694

Recombinant ki-67 antibody [176B3C4] - Additional Information**Gene ID** 4288**Target/Specificity**

Recombinant anti-Ki-67 monoclonal antibody recognizes endogenous levels of total Ki-67 protein.

Dilution

IHC-P~~1:1000

Format

Purified recombination monoclonal antibody supplied in PBS with 0.05% (W/V) Proclin300, and 0.05% BSA. This antibody is purified through a protein A column.

Storage

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

Precautions

Recombinant ki-67 antibody [176B3C4] is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant ki-67 antibody [176B3C4] - 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:[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

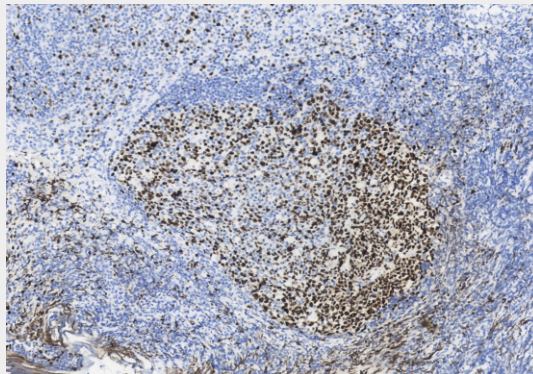
Chromosome. Nucleus. Nucleus, nucleolus Note=Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the mitotic chromosome surface (PubMed:27362226). Associates with satellite DNA in G1 phase (PubMed:9510506). Binds tightly to chromatin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

Recombinant ki-67 antibody [176B3C4] - 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](#)

Recombinant ki-67 antibody [176B3C4] - Images



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using AP80071 performed on the Abcarta® FAIP-30 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9.0). Samples were incubated with primary antibody for 15 min at room temperature. AmpSee™ Detection Systems [Abcepta:ADR005] was used as the secondary antibody.