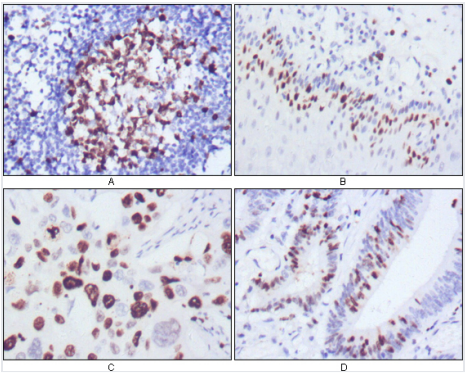
KI67 Antibody – Mouse

PRODUCT OVERVIEW

Product Name	KI67, Antibody
Full Product Name	KI67 Antibody
Product Gene Name	anti-KI67 antibody
Product Synonym Names	KIA; Ki-67; MKI67
Isotype	IgG2b
Clone Number	4A1
Host	Mouse
Species Reactivity	Human
Form/Format	Ascitic fluid containing 0.03% sodium azide.
Preparation and Storage	Store at 4 degree C, for long term storage, store at-20 degree C
Molecular Weight	358kDa
OMIM	176741
3D Structure	ModBase 3D Structure for P46013
Immunogen	Synthetic peptide corresponding to aa (CEDLAGFKELFQTPG) of human KI67, conjugated to KLH.
Product Categories/Family for anti-KI67 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-KI67 antibody	Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-KI67 antibody	IHC: 1:200-1:1000 ELISA: 1:10000
Related Product Information for anti-KI67 antibody	Ki67, also known as MKI67, it is the prototypic cell cycle related nuclear protein, expressed by proliferating cells in all phases of the active cell cycle (G1, S, G2 and M phase). It is absent in resting (G0) cells. Ki67 antibodies are useful in establishing the cell growing fraction in neoplasms (immunohistochemically quantified by determining the number of Ki67 positive cells among the total number of resting cells = Ki67 index). In neoplastic tissues the prognostic value is comparable to the tritiated thymidine labelling index. The correlation between low Ki67 index and histologically low grade tumours is strong. Ki67 is routinely used as a neuronal marker of cell cycling and proliferation.
Other Notes	Small volumes of anti-KI67 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for KI67 purchase	MBS850631 is an antibody targeting KI67. Also known as KI67 Antibody. Reactive in Human. Host: Mouse.



Immunohistochemistry (IHC) of anti-KI67 antibody
Figure 1. Immunohistochemical analysis of paraffin-embedded human lymph node (A), esophagus (B), lung cancer (C), rectum cancer (D), showing nuclear localization using KI67 mouse mAb with DAB staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KI67. It may not necessarily be applicable to this product.

NCBI GI #	225543215
NCBI GeneID	4288
NCBI Accession #	NP_001139438.1
UniProt Primary Accession #	P46013
UniProt Secondary Accession #	Q5VWH2
UniProt Related Accession #	P46013
GenBank Nucleotide #	NM_001145966.1
NCBI Official Full Name	proliferation marker protein Ki-67 isoform 2
NCBI Official Synonym Full Names	marker of proliferation Ki-67
NCBI Official Symbol	MKI67
NCBI Official Synonym Symbols	KIA; MIB-; MIB-1; PPP1R105
UniProt Protein Name	Proliferation marker protein Ki-67
UniProt Synonym Protein Names	Antigen identified by monoclonal antibody Ki-67
Protein Family	Proliferation marker protein
UniProt Gene Name	MKI67
UniProt Synonym Gene Names	Antigen KI-67Curated; Antigen Ki67Curated
NCBI Protein Information	proliferation marker protein Ki-67
NCBI Summary for KI67	This gene encodes a nuclear protein that is associated with and may be necessary for cellular proliferation. Alternatively spliced transcript variants have been described. A related pseudogene exists on chromosome X. [provided by RefSeq, Mar 2009]

UniProt Comments for KI67	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 (). 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).
Research Articles on KI67	**1.** High Ki-67 expression in localized PCa is a factor of poor prognosis for prostate cancer
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