

KI67 Monoclonal Antibody

Catalog No.	B-IO-10191	Reactivity	H,M,R
Storage	Store at -20°C. Avoid freeze / thaw cycles.	Host	Mouse
Applications	IHC-p,IF	Isotype	IgG

Note: Centrifuge before openensure complete recovery of vial contents.

Immunogen Information

Immunogen	Synthetic Peptide
Swissprot	P46013
Synonyms	MKI67,Antigen KI-67

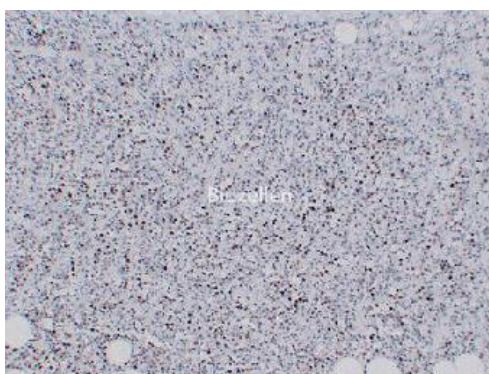
Product Information

Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.4
Purify	Protein A purification
Clone No.	Clone:8K5
Dilution	IHC 1:100-1:300, IF 1:50-200

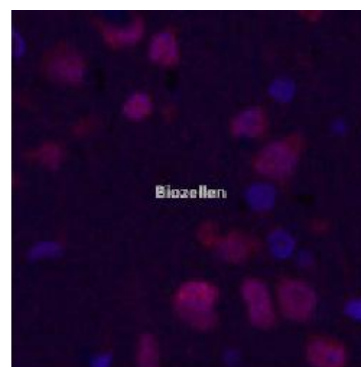
Background

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).

Images



Immunohistochemistry of paraffin-embedded Human Plasmacytoma using KI67 Monoclonal Antibody at dilution of 1:200.



Immunofluorescence analysis of Rat brain tissue using KI67 Monoclonal Antibody at dilution of 1:200.