

# Product Data Sheet

## Ki67/MKI67 Protein, Human (GST)

Cat. No.:	HY-P72508
Synonyms:	Antigen KI-67; Ki-67; KIA; MIB-1; MKI67; Proliferation Marker Protein Ki-67
Species:	Human
Source:	E. coli
Accession:	P46013 (M1-P120)
Gene ID:	4288
Molecular Weight:	approximately 36.91 kDa

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### DESCRIPTION

# BackgroundThe Ki67/MKI67 protein is essential for maintaining the dispersion of individual mitotic chromosomes in the cytoplasm<br/>following nuclear envelope disassembly. Positioned on the surface of the mitotic chromosome, specifically within the<br/>perichromosomal layer, Ki67/MKI67 covers a significant fraction of the chromosome surface, preventing the collapse of<br/>chromosomes into a singular chromatin mass. Functioning as a surfactant with a high net electrical charge, it establishes a<br/>steric and electrostatic charge barrier, facilitating independent chromosome motility. Ki67/MKI67 exhibits DNA-binding<br/>capabilities, displaying a preference for supercoiled DNA and AT-rich DNA. While it does not contribute to the internal<br/>structure of mitotic chromosomes, its role in chromatin organization remains uncertain, raising the possibility that this may<br/>be an indirect consequence of its primary function in maintaining dispersed mitotic chromosomes. The protein interacts<br/>with various partners, including KIF15, NIFK, PPP1CC, and forms part of a complex involving ZNF335, HCFC1, CCAR2, EMSY,

### Caution: Product has not been fully validated for medical applications. For research use only.

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