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Datasheet for ABIN7505015

Ki-67 Protein (AA 1001-1112) (His tag)

Overview

Quantity:	100 µg
Target:	Ki-67 (MKI67)
Protein Characteristics:	AA 1001-1112
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Ki-67 protein is labelled with His tag.

Product Details

Sequence:	Lys1001-Pro1112
Characteristics:	A DNA sequence encoding the Human KI67 protein (P46013) (Lys1001-Pro1112) was expressed with a N-His.
Purity:	>85 % as determined by reducing SDS-PAGE.

Target Details

Target:	Ki-67 (MKI67)
Alternative Name:	KI67 (MKI67 Products)
Background:	Background: Required to maintain individual mitotic chromosomes dispersed in the cytoplasm following nuclear envelope disassembly. Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the chromosome surface. Prevents chromosomes from collapsing into a single chromatin mass by forming a

Target Details

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. Binds DNA, with a preference for supercoiled DNA and AT-rich DNA. Does not contribute to the internal structure of mitotic chromosomes. May play a role in chromatin organization. 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).
Synonym: Antigen identified by monoclonal antibody Ki-67, Antigen KI-67, Antigen Ki67

Molecular Weight: 12.4 kDa

UniProt: [P46013](#)

Pathways: [Glycosaminoglycan Metabolic Process](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months