

## ARG82854 Human Ki-67 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82854-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82854-002	Standard	2 X 1 ng/vial	4°C
ARG82854-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82854-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82854-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82854-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82854-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82854-008	25X Wash buffer	20 ml	4°C
ARG82854-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82854-010	STOP solution	10 ml (Ready to use)	4°C
ARG82854-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82854 Human Ki-67 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Ki-67 in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Ki-67
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	3.9 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	7.8 - 500 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.6% Inter-Assay CV: 6.9%

Alternate Names                      Antigen KI-67; MIB-; KIA; MIB-1; PPP1R105

## Application Instructions

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Assay Time                              ~ 5 hours

## Properties

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Form                                        96 well

Storage instruction                      Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note                                         For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Gene Symbol                              MKI67

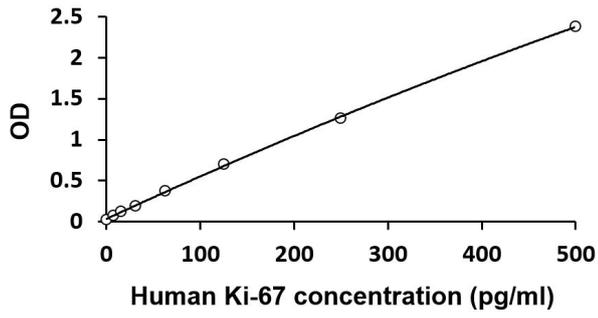
Gene Full Name                            marker of proliferation Ki-67

Background                                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]

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). [UniProt]

PTM                                         Phosphorylated. Hyperphosphorylated in mitosis (PubMed:10502411, PubMed:10653604). Hyperphosphorylated form does not bind DNA. [UniProt]

Cellular Localization                      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. Associates with satellite DNA in G1 phase. Binds tightly to chromatin in interphase, chromatin-binding decreases in mitosis when it associates with the surface of the condensed chromosomes. Predominantly localized in the G1 phase in the perinucleolar region. [UniProt]



ARG82854 Human Ki-67 ELISA Kit standard curve image

ARG82854 Human Ki-67 ELISA Kit results of a typical standard run with optical density reading at 450 nm.