

ARG10575 anti-Ki-67 antibody [E18-E]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Monoclonal antibody [E18-E] recognizes Ki-67
Tested Reactivity	Hu
Tested Application	ICC/IF, IHC-P
Host	Rabbit
Clonality	Monoclonal
Clone	E18-E
Isotype	IgG
Target Name	Ki-67
Species	Human
Immunogen	Synthetic peptide around the N-terminus of Human Ki-67
Conjugation	Un-conjugated
Alternate Names	Antigen Ki-67; MIB-; KIA; MIB-1; PPP1R105

Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	IHC-P	1:100 - 1:200
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

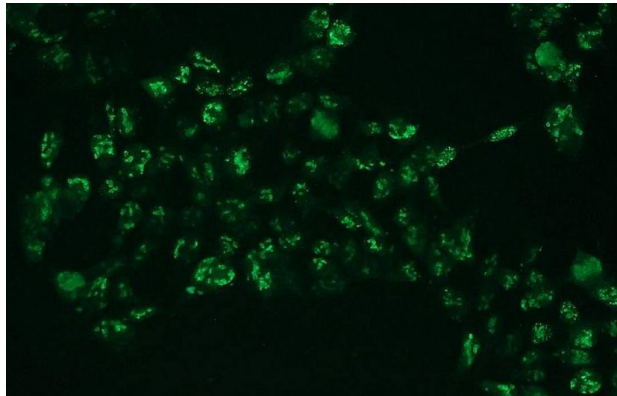
Properties

Form	Liquid
Buffer	20 mM Tris-HCl (pH 8.0), 0.05% Sodium azide and 20 mg/ml BSA
Preservative	0.05% Sodium azide
Stabilizer	20 mg/ml BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

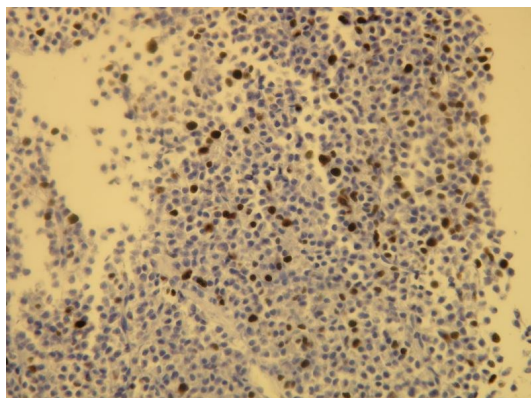
Database links	GeneID: 4288 Human Swiss-port # P46013 Human
Gene Symbol	MKI67
Gene Full Name	marker of proliferation Ki-67
Background	Ki-67 is a nuclear protein. It is associated with and may be necessary for cellular proliferation. Alternatively spliced transcript variants have been described. A related pseudogene exists on chromosome X. [provided by RefSeq, Mar 2009]
Function	Ki-67 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). [UniProt]
Research Area	Microvascular Density Study antibody; Proliferation Marker antibody
Calculated Mw	359 kDa
PTM	Phosphorylated. Hyperphosphorylated in mitosis (PubMed:10502411, PubMed:10653604). Hyperphosphorylated form does not bind DNA.

Images



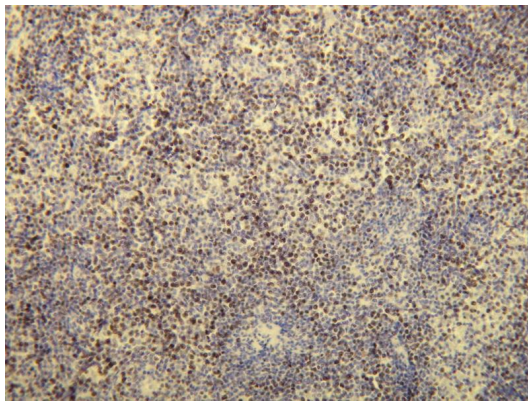
ARG10575 anti-Ki-67 antibody [E18-E] ICC/IF image

Immunocytochemistry: HEK293 cells stained with ARG10575 anti-Ki-67 antibody [E18-E] at 1:100 dilution.



ARG10575 anti-Ki-67 antibody [E18-E] IHC-P image

Immunohistochemistry: Formalin fixed, paraffin embedded Human plasma cell myeloma in the bone marrow biopsy (4 μ m sections) stained with ARG10575 anti-Ki-67 antibody [E18-E].



ARG10575 anti-Ki-67 antibody [E18-E] IHC-P image

Immunohistochemistry: Formalin fixed, paraffin embedded Human B-cell lymphoma showing high proliferating index (4 μ m sections) stained with ARG10575 anti-Ki-67 antibody [E18-E].