

ARG46830 anti-Ki-67 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rat Monoclonal antibody recognizes Ki-67
Tested Reactivity	Hu, Ms
Tested Application	IHC-P
Host	Rat
Clonality	Monoclonal
Isotype	IgG2b
Target Name	Ki-67
Species	Human
Immunogen	A synthesized peptide derived from human Ki-67
Conjugation	Un-conjugated
Alternate Names	Antigen KI-67; MIB-; KIA; MIB-1; PPP1R105

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:100
Application Note	IHC-P: Antigen Retrieval: High-pressure and temperature Sodium Citrate pH 6.0 * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

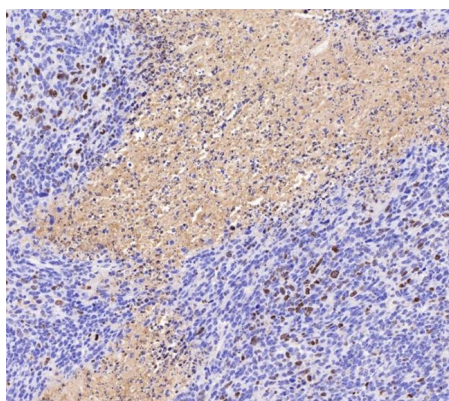
Form	Liquid
Purification	Affinity chromatography purified
Buffer	PBS, 150mM NaCl and 0.02% Sodium azide.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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

Gene Symbol	MKI67
Gene Full Name	marker of proliferation Ki-67

Background	anti Ki67 antibody SP6 MKI67 Antigen KI67 MIB1 marker of proliferation Ki67 KIA MIB PPP1R105 MKI67 SP6 SP6 MIB
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]
Highlight	Related Antibody Duos and Panels: ARG30327 Microvascular Density Antibody Panel Related products: Ki-67 antibodies ; Ki-67 Duos / Panels ; Anti-Rabbit IgG secondary antibodies ; Related news: Cancer Pathology Markers (SQ clones)
Calculated Mw	345 kDa and 395 kDa
PTM	Phosphorylated. Hyperphosphorylated in mitosis (PubMed:10502411, PubMed:10653604). Hyperphosphorylated form does not bind DNA.
Cellular Localization	Nucleus

Images



ARG46830 anti-Ki-67 antibody IHC-P image

Immunohistochemistry: Human liver cancer in Chimera mouse stained with ARG46830 anti-Ki-67 antibody.