

Rabbit Ki-67 polyclonal Antibody | anti-Ki-67 antibody

Ki-67 antibody Purified Rabbit Polyclonal Antibody (Pab)

CATALOG # AAA290997	HOST Rabbit	REACTIVITY Hamster ; Predicted Reactivity: Pig	APPLICATIONS ELISA, Western Blot
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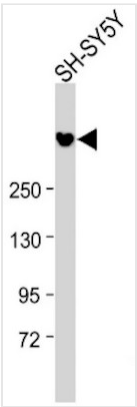
PRODUCT SYNONYMS

Ki-67; polyclonal Antibody; Ki-67 antibody Purified Rabbit Polyclonal Antibody (Pab); Proliferation marker protein Ki-67; Antigen identified by monoclonal antibody Ki-67; Antigen KI-67; Antigen Ki67; MKI67; anti-Ki-67 antibody

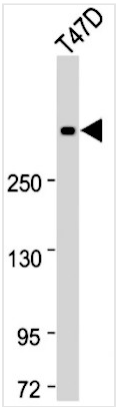
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Hamster ; Predicted Reactivity: Pig
Clonality	polyclonal
Isotype	Rabbit IgG
Specificity	This antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from human.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Applicable Applications for anti-Ki-67 antibody	ELISA, WB (Western Blot)
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).
Cellular Location	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 (PubMed:27362226). Associates with satellite DNA in G1 phase (PubMed:9510506). Binds tightly to chromatin in interphase, chromatin-binding decreases in mitosis when it associates with the surface of the condensed chromosomes (PubMed:15896774, PubMed:22002106). Predominantly localized in the G1 phase in the perinucleolar region, in the later phases it is also detected throughout the nuclear interior, being predominantly localized in the nuclear matrix (PubMed:22002106).
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
All lanes : Anti-Ki-67 antibody at 1:1000 dilutionLane 1: SH-SY5Y whole cell lysate Lysates/proteins at 20 ug per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Observed band size : 359kDaBlocking/Dilution buffer: 5% NFDm/TBST.



WB (Western Blot)
All lanes: Anti-Ki-67 antibody at 1:500 dilutionLane 1: T47D whole cell lysate Lysates/proteins at 20 ug per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Observed band size: 359kDaBlocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Product Categories/Family for anti-Ki-67 antibody	New Antibodies; Primary Antibodies; Cancer; Cell Biology; Neuroscience
References	Schlueter C.,et al.J. Cell Biol. 123:513-522(1993).Deloukas P.,et al.Nature 429:375-381(2004).Gerdes J.,et al.Submitted (MAR-1997) to the EMBL/GenBank/DDBJ databases.Gerdes J.,et al.Int. J. Cancer 31:13-20(1983).Gerdes J.,et al.J. Immunol. 133:1710-1715(1984).PubMed: http://www.uniprot.org/citations/27362226 , http://www.uniprot.org/citations/10878551 , http://www.uniprot.org/citations/24867636

NCBI AND UNIPROT INFORMATION

NCBI GI #	225543215
NCBI GeneID	4288
NCBI Accession #	NP_001139438.1
NCBI GenBank Nucleotide #	NM_001145966.1
UniProt Accession #	P46013; Q5VWH2
Molecular Weight	358,694
NCBI Official Full Name	antigen KI-67 isoform 2
NCBI Official Synonym Full Names	antigen identified by monoclonal antibody Ki-67
NCBI Official Symbol	MKI67
NCBI Official Synonym Symbols	KIA
NCBI Protein Information	antigen KI-67; proliferation-related Ki-67 antigen
UniProt Protein Name	Antigen KI-67
UniProt Gene Name	MKI67
UniProt Entry Name	KI67_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

