

Rabbit Ki67 Polyclonal Antibody | anti-Ki67 antibody

Ki67

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA76740	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot, Immunocytochemistry

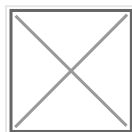
PRODUCT SYNONYMS

Ki67; Polyclonal Antibody; anti-Ki67 antibody

PRODUCT SPECIFICATIONS

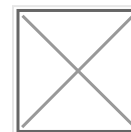
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Form/Format	Liquid. Supplied as an aliquot of serum plus 5mM sodium azide
Applicable Applications for anti-Ki67 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ICC (Immunocytochemistry)
Immunogen	Recombinant human construct containing amino acids 1,111-1,490 expressed in and purified from E coli.
Preparation and Storage	Antibody can also be aliquotted and stored frozen at -20 degree C in a manual defrost freezer for sixmonths without detectable loss of activity. The antibody can be stored at 2 degree - 8 degree C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of equal amounts of cell lysates using rabbit pAb to Ki67, AAA76740, dilution 1:10,000, (green): [1] protein standard (red), [2] rapidly growing HeLa cell cultures, [3] rapidly growing HEK293 cell cultures. Strong double bands larger than the 250kDa standard correspond to full length 345kDa and 395kDa Ki67 isoforms, while smaller proteolytic fragments of these isoforms are also invariably detected on the blot.



IF (Immunofluorescence)

Immunofluorescent analysis of HeLa cells stained with rabbit pAb to Ki67, AAA76740, dilution 1:5,000 in red, and mouse monoclonal antibody to fibrillarin in green. The blue is DAPI staining of nuclear DNA. The Ki67 protein accumulates in and around the nucleoli of interphase cells such as those on the right, and the nucleoli are revealed by the fibrillarin antibody. In contrast, cells in the quiescent G0 state such as those on the left are Ki67 negative but fibrillarin positive.

ADDITIONAL INFORMATION

Related Product Information for anti-Ki67 antibody

The Ki67 protein was first discovered when researchers attempted to generate cancer cell specific monoclonal antibodies by injecting mice with nuclear preparations from Hodgkin's lymphoma cells. The presence of the Ki67 protein is frequently used as an indicator of cell proliferation and its level of expression is one of the most reliable biomarkers of proliferative status of cancer cells. Much research shows a correlation between Ki67 protein level and prognosis in cancer patients, when high Ki67 levels being associated with poorer outcomes.

It was made against a recombinant construct including amino acids 1,111-1,490 of the human sequence P46013, a region corresponding to 2nd, 3rd and 4th Ki67 type repeats. Although Ki67 is relatively poorly conserved in amino acid sequence, this antibody recognizes both rat and mouse Ki67. Note that the Ki67 proteins are very unstable and only expressed in large amounts in situations where many cells are dividing. As a result of the very short half life of Ki67 there are usually numerous fragments visible on western blots running below the 395kDa and 345kDa bands.

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 Da
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ki67-antibody-immunofluorescence-immunohistochemistry-western-blot-immunocytochemistry-elisa/76740>