

For Research Use Only

KI67 Polyclonal antibody

Catalog Number: 27309-1-AP

Featured Product

880 Publications



Basic Information

Catalog Number: 27309-1-AP	GenBank Accession Number: NM_002417	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 4288	Recommended Dilutions: IHC 1:2000-1:10000 IF 1:50-1:500
Source: Rabbit	UNIPROT ID: P46013	
Isotype: IgG	Full Name: antigen identified by monoclonal antibody Ki-67	
Immunogen Catalog Number: AG26266	Calculated MW: 359 kDa	

Applications

Tested Applications:

IF, FC, IHC, ELISA

Cited Applications:

IF, FC, IHC

Species Specificity:

human

Cited Species:

human, goat, rabbit, hamster, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC: human tonsillitis tissue, K-562 cells, Insulinoma tissue, human lung cancer tissue, human breast cancer tissue, human skin cancer tissue, human lymphoma tissue, human colon cancer tissue, human gliomas tissue

IF: HeLa cells, HEK-293 cells

Background Information

The Ki-67 protein (also known as MKI67) is a cellular marker for proliferation. Ki67 is present during all active phases of the cell cycle (G1, S, G2 and M), but is absent in resting cells (G0). Cellular content of Ki-67 protein markedly increases during cell progression through S phase of the cell cycle. Therefore, the nuclear expression of Ki67 can be evaluated to assess tumor proliferation by immunohistochemistry. It has been demonstrated to be of prognostic value in breast cancer. In head and neck cancer, several studies have reported an association between high proliferative activity and poorer prognosis.

Notable Publications

Author	Pubmed ID	Journal	Application
Ji Xing	36230734	Cancers (Basel)	IF
Yu Chen	36240716	Tissue Cell	IHC
Liming Wang	31566718	J Cell Physiol	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

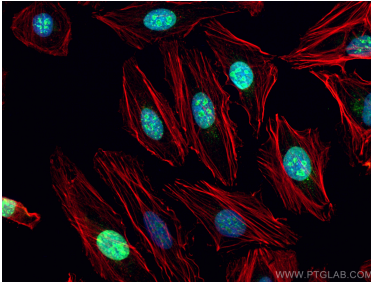
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

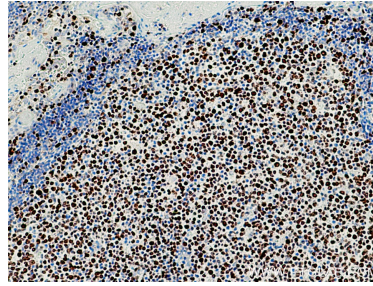
E: proteintech@ptglab.com
W: ptglab.com

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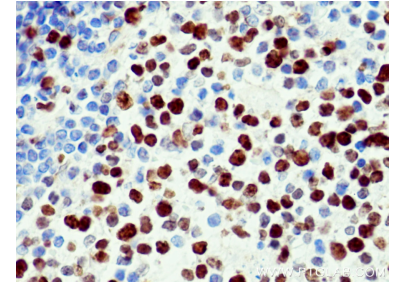
Selected Validation Data



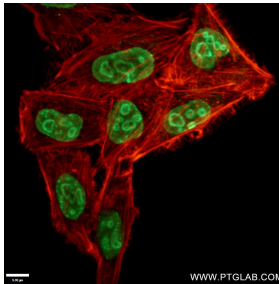
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using KI67 antibody (27309-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



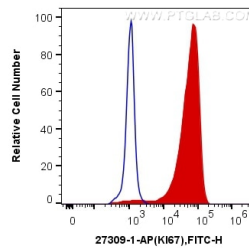
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 27309-1-AP (KI67 antibody) at dilution of 1:16000 (under 10x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 27309-1-AP (KI67 antibody) at dilution of 1:16000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 27309-1-AP (KI67 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). F-actin is stained using CL555-phalloidin (red).



1X10⁶ Jurkat cells were intracellularly stained with 0.4 ug Anti-Human KI67 (27309-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug x. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).