

For Research Use Only

Ki-67 Polyclonal antibody

Catalog Number: 27309-1-AP

Featured Product

1242 Publications



Basic Information

Catalog Number:

27309-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG26266

GenBank Accession Number:

NM_002417

GeneID (NCBI):

4288

UNIPROT ID:

P46013

Full Name:

antigen identified by monoclonal antibody Ki-67

Calculated MW:

359 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC: 1:4000-1:16000

IF-P: 1:50-1:500

IF-Fro: 1:50-1:500

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

IHC, IF/ICC, IF-P, IF-Fro, FC (Intra), ELISA

Cited Applications:

IHC, IF, FC (Intra), ICC-IF

Species Specificity:

human

Cited Species:

human, pig, canine, zebrafish, hamster, goat

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

IF-P: human lung cancer tissue,

IF-Fro: mouse breast cancer,

IF/ICC: HeLa cells, HEK-293 cells

FC (Intra): Jurkat 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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

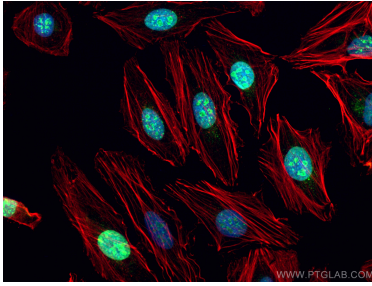
For technical support and original validation data for this product please contact:

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

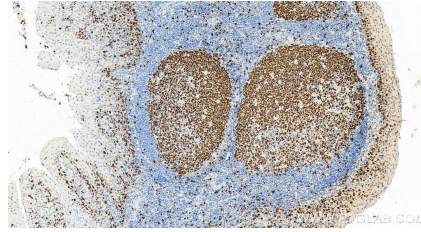
E: proteintech@ptglab.com
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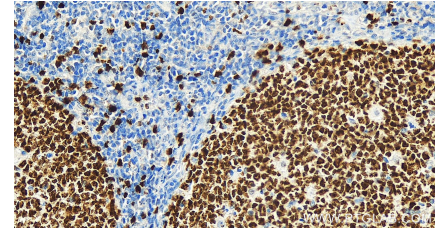
Selected Validation Data



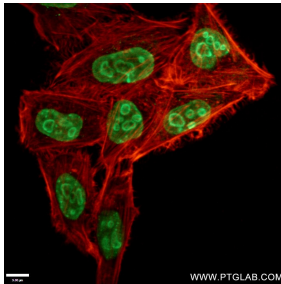
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Ki67 antibody (27309-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



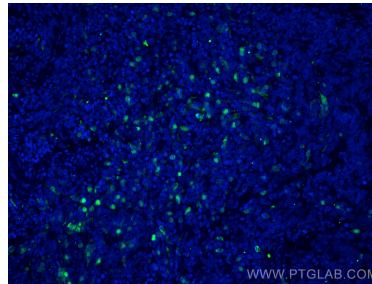
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 27309-1-AP (Ki-67 antibody) at dilution of 1:8000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



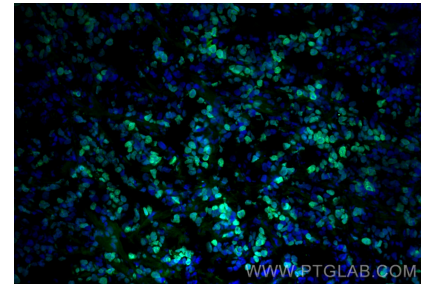
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 27309-1-AP (Ki-67 antibody) at dilution of 1:8000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



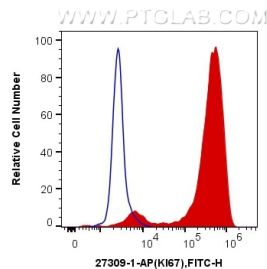
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 27309-1-AP (Ki67 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). F-actin is stained using CL555-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human lung cancer tissue using Ki-67 antibody (27309-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of un-fixed frozen OCT-embedded mouse breast cancer using Ki-67 antibody (27309-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



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).