For Research Use Only

Ki-67 Polyclonal antibody

Catalog Number:28074-1-AP 112 Publications

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Basic Information

Catalog Number:
28074-1-AP

Concentration:
400 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG27894

GenBank Accession Number:
NM_001081117

GeneID (NCBI):
17345

UNIPROT ID:
E9PVX6

Full Name:
antigen identified by monoclonal antibody Ki 67

Calculated MW:
351 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IHC: 1:1000-1:4000
IF-P: 1:1500-1:6000
IF-Fro: 1:50-1:500
IF/ICC: 1:400-1:1600
FC (Intra): 0.20 ug per 10^6 cells in a 100 µl suspension

Applications

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

Cited Applications:
WB, IHC, IF, Cell treatment

Species Specificity:
mouse

Cited Species:
mouse, rat

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 : mouse spleen tissue,

IF-P : mouse colon tissue, mouse spleen tissue

IF-Fro : mouse spleen tissue, mouse liver tissue

IF/ICC : NIH/3T3 cells, HeLa cells

FC (Intra) : NIH/3T3 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.

Notable Publications

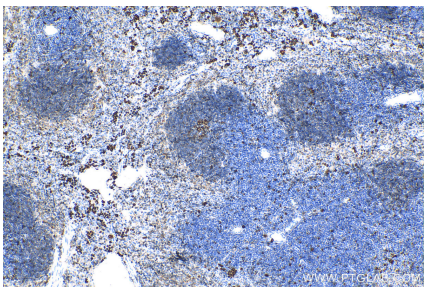
Author	Pubmed ID	Journal	Application
Wenbing Wu	36147440	J Oncol	IHC
Keiko Haraguchi-Suzuki	36074048	Genes Cells	WB,IF
Zifan Wang	36203070	In Vitro Cell Dev Biol Anim	IHC

Storage

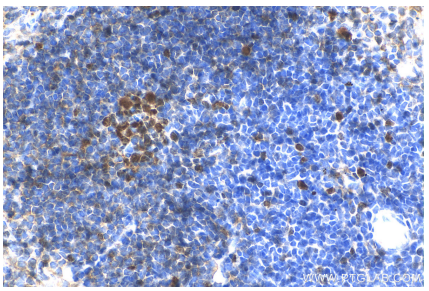
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

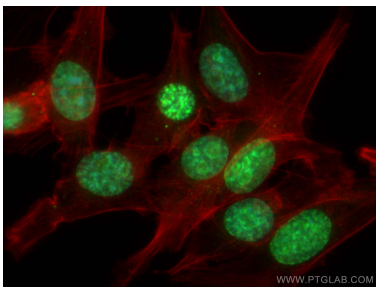
Selected Validation Data



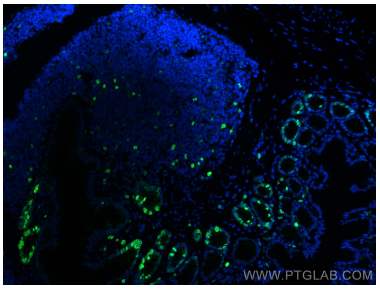
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 28074-1-AP (ki67 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



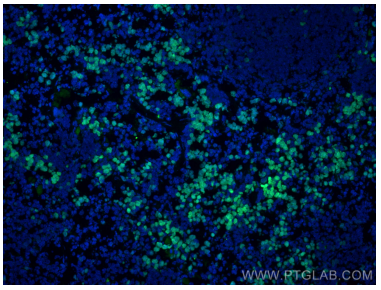
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 28074-1-AP (ki67 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



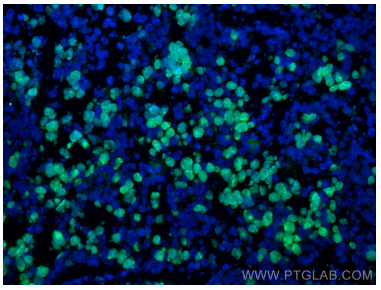
Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using ki67 antibody (28074-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



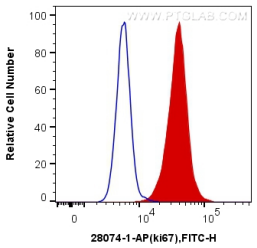
Immunofluorescent analysis of (4% PFA) fixed mouse colon tissue using ki67 antibody (28074-1-AP) at dilution of 1:3000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse spleen tissue using ki67 antibody (28074-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse spleen tissue using ki67 antibody (28074-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1X10^6 NIH/3T3 cells were intracellularly stained with 0.2 ug Anti-Mouse ki67 (28074-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).