For Research Use Only

Ki-67 Recombinant antibody

Catalog Number:84192-4-RR 2 Publications

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Basic Information

Catalog Number:
84192-4-RR

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

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:
Protein A purfication

CloneNo.:
241499E7

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:1000-1:4000
IF-P 1:50-1:500
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:
IHC, IF

Species Specificity:
human

Cited Species:
human

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:

WB : HeLa cells, HepG2 cells, HEK-293 cells, MCF-7 cells, Ramos cells

IHC : human tonsillitis tissue, human skin cancer tissue, Human Spleen tissue, Human renal cancer, human malignant melanoma tissue, human prostate cancer tissue, human Breast cancer tissue

IF-P : human lung cancer tissue, human thyroid cancer tissue

IF/ICC : HeLa cells, MCF-7 cells, U2OS cells, HepG2 cells, A431 cells, A549 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
Ming Zhou	39831459	Cell Biol Int	IHC
Penghui Ye	39787763	Int Immunopharmacol	IF

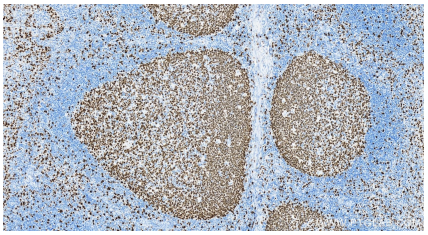
Storage

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

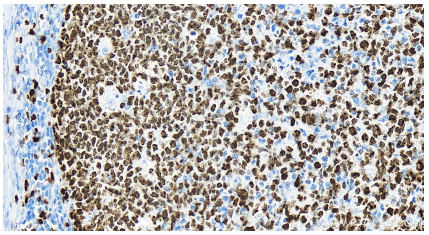
*** 20ul sizes contain 0.1% BSA

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

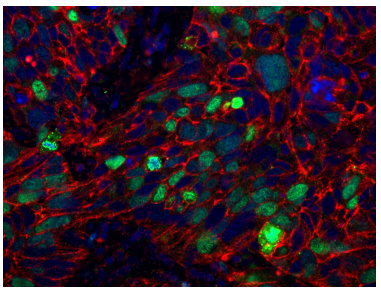
Selected Validation Data



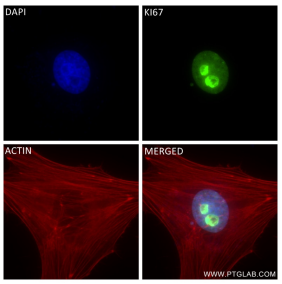
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84192-4-RR (Ki-67 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



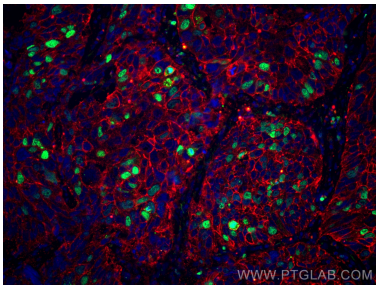
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84192-4-RR (Ki-67 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



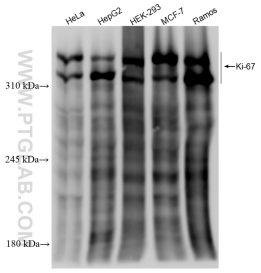
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human lung cancer tissue using Ki-67 antibody (84192-4-RR, Clone: 241499E7) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), ICAM-1/CD54 antibody (60299-1-Ig, Clone: 2F9A8, red). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Ki-67 antibody (84192-4-RR, Clone: 241499E7) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human lung cancer tissue using Ki-67 antibody (84192-4-RR, Clone: 241499E7) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 84192-4-RR (Ki-67 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.