

For Research Use Only

# Ki-67 Recombinant antibody

Catalog Number: 84192-3-RR



## Basic Information

<b>Catalog Number:</b> 84192-3-RR	<b>GenBank Accession Number:</b> NM_002417	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 800 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4288	<b>CloneNo.:</b> 241499B1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P46013	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000 IF-P 1:50-1:500 IF/ICC 1:100-1:400
<b>Isotype:</b> IgG	<b>Full Name:</b> antigen identified by monoclonal antibody Ki-67	
	<b>Calculated MW:</b> 359 kDa	

## Applications

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

**Species Specificity:**  
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 :** MCF-7 cells, HeLa cells

**IHC :** human tonsillitis tissue, human colon cancer tissue, human lung cancer tissue, human malignant melanoma tissue, human ovarian cancer, human placenta tissue

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

**IF/ICC :** HeLa cells, U2OS cells, MCF-7 cells, hTERT-RPE1 cells, HepG2 cells, A549 cells, A431 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.

## 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.

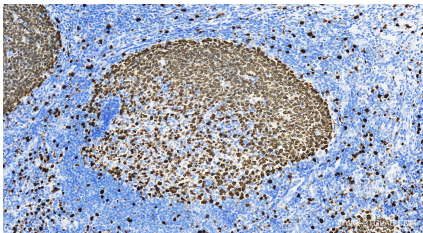
**Aliquoting is unnecessary for -20°C storage**

**\*\*\* 20ul sizes contain 0.1% BSA**

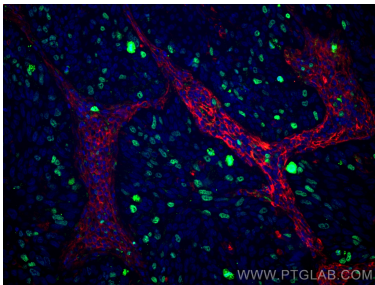
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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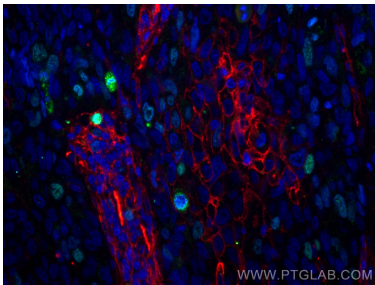
Selected Validation Data



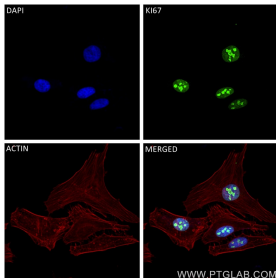
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84192-3-RR (Ki67 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



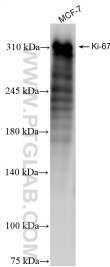
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human lung cancer tissue using Ki67 antibody (84192-3-RR, Clone: 241499B1) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), ICAM-1 antibody (60299-1-Ig, Clone: 2F9A8, red). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human lung cancer tissue using Ki67 antibody (84192-3-RR, Clone: 241499B1) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), ICAM-1 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 Ki67 antibody (84192-3-RR, Clone: 241499B1) at dilution of 1:250 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



MCF-7 cells were subjected to SDS PAGE followed by western blot with 84192-3-RR (Ki-67 antibody) at dilution of 1:16000 incubated at room temperature for 1.5 hours.