For Research Use Only

Ki-67 Monoclonal antibody

Catalog Number:66555-6-Ig 2 Publications

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Basic Information

Catalog Number:
66555-6-Ig

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

Source:
Mouse

Isotype:
IgG1

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:
Protein G purification

CloneNo.:
1B9H2

Recommended Dilutions:
IHC: 1:1000-1:5000
IF/ICC: 1:1000-1:4000
FC (Intra): 0.2 µg per 10^6 cells in a 100 µl suspension

Applications

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

Cited Applications:
IHC

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:

IHC : human tonsillitis tissue, human ovary cancer tissue, human rectal cancer tissue

IF/ICC : HeLa cells,

FC (Intra) : 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaopeng Guo	40916884	J Pathol Transl Med	IHC
Rima Nuwayhid	40918441	Front Bioeng Biotechnol	

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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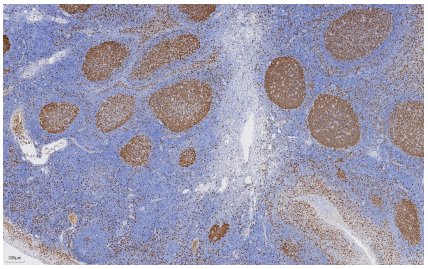
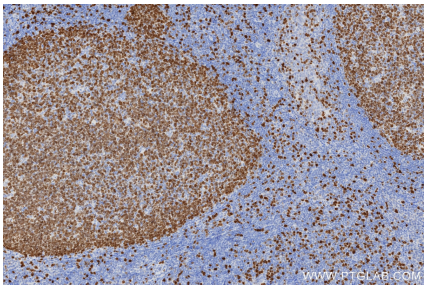
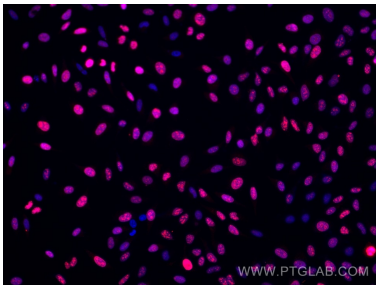
Selected Validation Data



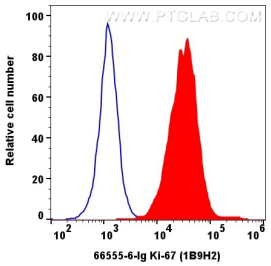
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66555-6-Ig (Ki-67 antibody) at dilution of 1:5000 (under 4x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66555-6-Ig (Ki-67 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Ki-67 antibody (66555-6-Ig, Clone: 1B9H2) at dilution of 1:2000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



1x10^6 A431 cells were intracellularly stained with 0.2 µg Ki-67 Monoclonal antibody (66555-6-Ig, Clone:1B9H2,red) and Multi-rAb CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L)(RGAM005), Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3, blue) was parallel stained as control. Cells were fixed with 4% PFA.