Catalog No. BN42207M

Mouse Anti-Ki-67 Monoclonal Antibody

DATASHEET

Host: Mouse

Target Protein: Ki-67

IR: Immunogen Range:

Clonality: Monoclonal

Isotype: IgG

Entrez Gene:4288

Swiss Prot:P46013

Source:KLH conjugated synthetic peptide derived from human Ki-67:

Purification:affinity purified by Protein G

Storage:0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Background: Ki67 antigen is the prototypic cell cycle related nuclear protein, expressed by proliferating cells in all phases of the active cell cycle (G1, S, G2 and M phase). It is absent in resting (G0) cells. Ki67 antibodies are useful in establishing the cell growing fraction in neoplasms (immunohistochemically quantified by determining the number of Ki67 positive cells among the total number of resting cells = Ki67 index). In neoplastic tissues the prognostic value is comparable to the tritiated thymidine labelling index. The correlation between low Ki67 index and histologically low grade tumours is strong. Ki67 is routinely used as a neuronal marker of cell cycling and proliferation.

Concentration:1mg/ml

Applications:IHC-P(1:100-500)
IHC-F(1:100-500)
Flow-Cyt(1ug/Test)
IF(1:100-500)

Cross Reactive Species: Human
Mouse
Rat
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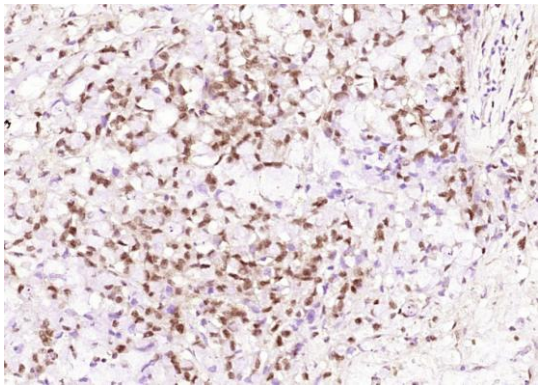
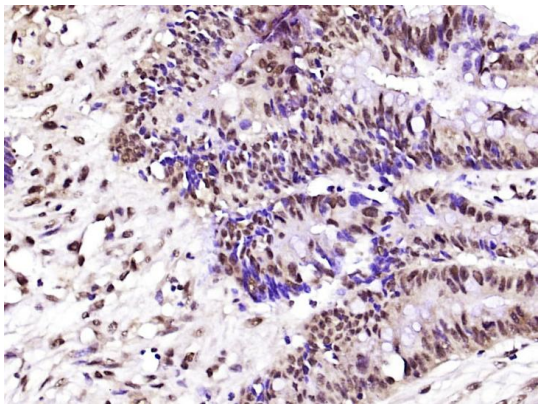
For research use only. Not intended for diagnostic or therapeutic use.

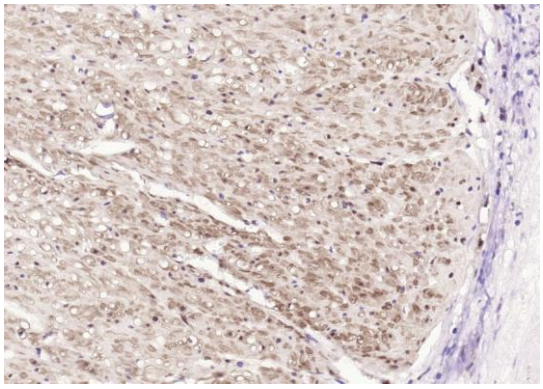
VALIDATION IMAGES



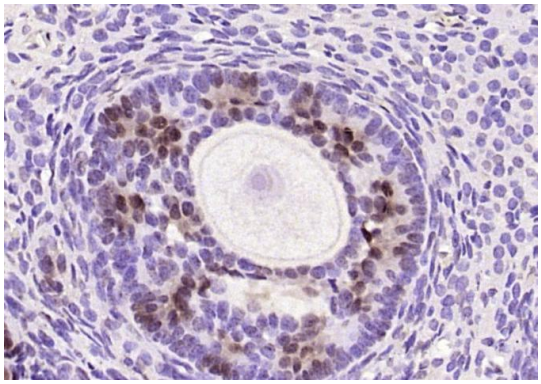
Paraformaldehyde-fixed, paraffin embedded (Human caecum cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Ki-67) Monoclonal Antibody, Unconjugated at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse) instructionsand DAB staining.



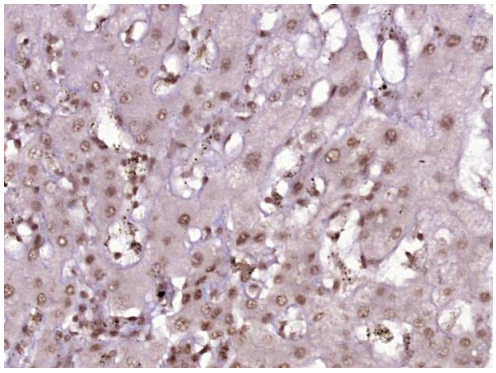
Paraformaldehyde-fixed, paraffin embedded (Human colon cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Ki-67) Monoclonal Antibody, Unconjugated at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) instructions and DAB staining.



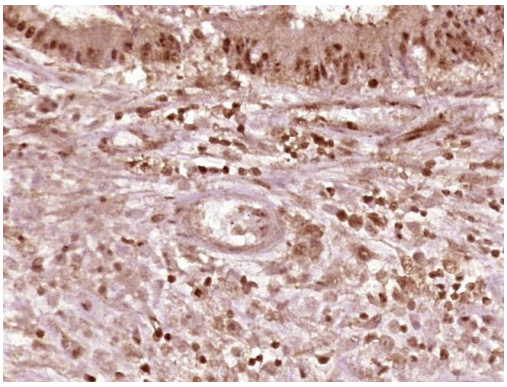
Paraformaldehyde-fixed, paraffin embedded (human rectal carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Ki-67) Monoclonal Antibody, Unconjugated at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse) instructionsand DAB staining.



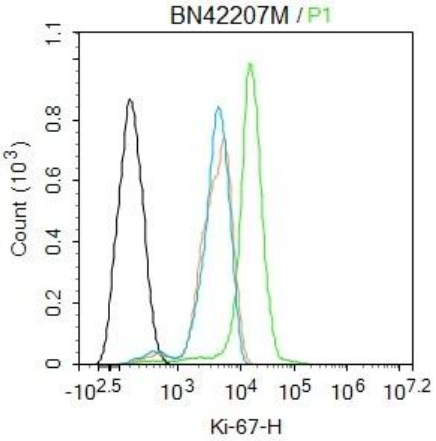
Paraformaldehyde-fixed, paraffin embedded (rat ovary); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Ki-67) Monoclonal Antibody, Unconjugated at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse) instructionsand DAB staining.



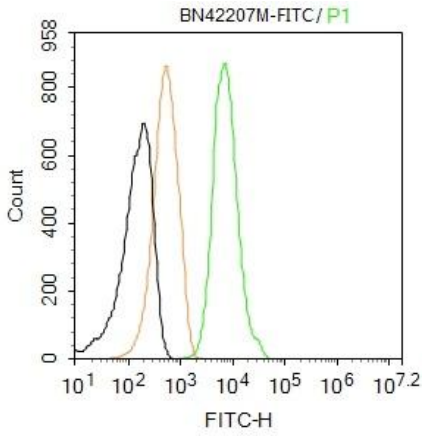
Paraformaldehyde-fixed, paraffin embedded (Human liver cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Ki-67) Monoclonal Antibody, Unconjugated at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human stomach cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Ki-67) Monoclonal Antibody, Unconjugated at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) instructions and DAB staining.



Blank control:Hela.
Primary Antibody (green line): Mouse Anti-Ki-67 antibody
Dilution: 1ug/Test;
Secondary Antibody : Goat anti-mouse IgG-FITC
Dilution: 0.5ug/Test.
Protocol
The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20℃.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control:Hela.
Primary Antibody (green line): Mouse Anti-Ki-67 antibody
Dilution: 2μg /10^6 cells;
Isotype Control Antibody (orange line): Mouse IgG .
Protocol
The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20℃. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. Acquisition of 20,000 events was performed.