Synaptic Systems

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Ki67

Cat.No. 398 117; Monoclonal rat antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	**WB**: not tested yet **IP**: not tested yet **ICC**: not tested yet **IHC**: not tested yet **IHC-P/FFPE**: 1 : 1000
Clone	311H2
Subtype	IgG2b (λ light chain)
Immunogen	Synthetic peptide corresponding to AA 1234 to 1252 from mouse Ki67 (UniProt Id: E9PVX6)
Epitop	Epitop: AA 1234 to 1252 from mouse Ki67 (UniProt Id: E9PVX6)
Reactivity	Reacts with: mouse (E9PVX6). No signal: human (P46013). Other species not tested yet.
Specificity	Specific for KI 67

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Expression of the nuclear protein **Ki 67** is strictly associated with cell proliferation and preferentially expressed during the late G1, S, G2 and M phases of the cell cycle. Resting cells (G0 phase) lack Ki 67 expression .
Immunohistochemical detection of Ki 67 is a simple and reproducible method to determine the tumour proliferative index and is a predictive and prognostic biomarker in certain types of human cancer, such as breast cancer, gastric cancer or prostate cancer. Moreover, higher Ki 67 scores may be associated with increased tumor sensitivity to radiation therapy and chemotherapy.
In preclinical and clinical studies Ki 67 expression is used as a pharmacodynamic biomarker. Absence of a decrease in Ki 67 early in treatment might be predictive of therapeutic failure.

Selected General References

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