

## Ki67

Cat.No. HS-398 003; Polyclonal rabbit antibody, 200 µl specific antibody (lyophilized)

### Data Sheet

|                            |                                                                                                                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reconstitution/<br>Storage | 200 µl specific antibody, lyophilized. Affinity purified with the immunogen. BSA and azide were added for stabilization. For reconstitution add 200 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. |
| Applications               | <b>IHC-P/FFPE:</b> 1 : 100                                                                                                                                                                                                                          |
| Immunogen                  | Synthetic peptide corresponding to AA 1251 to 1271 from human Ki67 (UniProt ID: P46013)                                                                                                                                                             |
| Reactivity                 | Reacts with: human (P46013).<br>No signal: mouse (E9PVX6), pig.<br>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.

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