Antibody to Ki67 Antigen

Catalogue No: VP-K451

Product Specifications

Intended use: For in-vitro diagnostic use.

Polyclonal Anti-Human Ki67 antigen is intended for immunohistochemistry methodologies. A differential diagnosis is complemented by using a panel of antibodies and in conjunction with morphological studies, patient clinical history and other diagnostic tests by a qualified pathologist.

The assessment of cell proliferation in neoplastic cell populations has been shown to be of prognostic value. The polyclonal antibody VP-K451 is useful in quantitatively identifying Ki67 positive cells using immunohistochemistry. The correlation between low and high Ki67 index and low or high-grade histology of neoplasms is strong. VP-K451 detects the Ki67 antigen in the nucleus of proliferating cells.

Storage and stability: Store unopened antibody at 2-8°C. Do not use after expiration date indicated on the vial label. The reconstituted antibody is stable for 2 months when stored at 2-8°C. For long term storage, aliquot & freeze at -20°C. Repeated freezing & thawing should be avoided. Working dilutions should be prepared on the day of use. Return to 2-8°C immediately after use.

Specificity: Human Ki67 nuclear antigen expressed on all proliferating cells during late G1, S, M and G2 phases of the cell cycle. Crossreacts with rat and mouse Ki67 nuclear antigen.

Immunogen: Recombinant fusion protein corresponding to a 1086bp Ki67 motif-containing cDNA fragment.

Product: Lyophilised rabbit polyclonal antiserum in PBS (pH7.6) containing 15mM sodium azide plus 0.1% BSA. Reconstitute the contents with the correct volume of sterile distilled water as indicated on the vial.

Precautions: As this product is derived from biological material proper handling procedures should be employed. Sodium azide is not considered hazardous at 15mM. However, an MSDS is available on request or online (www.vectorlabs.com) for safety or disposal information.

Specimen Preparation

Paraaffin sections: VP-K451 can be used on paraffin wax embedded tissue fixed in 10% neutral buffered formalin. Pre-treatment of tissue is essential using a high temperature antigen unmasking technique. Optimal results can be achieved with Vector Antigen Unmasking solution (H-3300).

Frozen sections: Yes, Zamboni’s fixative recommended.

INSTRUCTIONS FOR USE

Dilutions and times are only a guide, there may be variations due to fixation, specimen collection and preparation, optimal conditions should be established by the individual laboratory.

Following antigen unmasking of paraffin wax embedded tissue VP-K451 should be applied to sections in the dilution range 1:1000 for 60 minutes at 25°C.

Positive control tissue: A positive control should be used in each run. The recommended control tissue is tonsil.

Negative control tissue: A negative control tissue should be set up to verify the specificity of the antibody. The recommended negative control is cerebellum.

Negative control reagent: A negative control rabbit immunoglobulin (e.g. I-1000) should be used to evaluate non-specific binding.

Visualisation: VECTASTAIN® Elite ABC Peroxidase Kits (PK-6200 or PK-6101, PK-7200) in conjunction with substrate kits (SK-4100 or SK-4800) are all recommended for use with this antibody. Specific protocols are included in each kit.

For professional use only.

Selected References:


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