

Product Information

Monoclonal Anti-Vimentin

Clone V9

Mouse Ascites Fluid

Product Number **V 6630**

Product Description

Monoclonal Anti-Vimentin (mouse IgG1 isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Vimentin purified from pig eye lens was used as the immunogen. The isotype is determined using Sigma ImmunoType™ Kit (Product Code ISO-1) and by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents (Product Code ISO-2).

Monoclonal Anti-Vimentin is immunospecific for vimentin as determined by immunoblotting (~58 kDa) or immunohistochemistry using total cell or total tissue extracts. The antibody reacts with vimentin from human, pig, chicken, or rat sources.

Vimentin is one of the five major groups of intermediate filaments with a molecular weight of 58 kDa. Intermediate filaments (IFs) with characteristic 10 nm diameter are a distinct class of molecularly heterogeneous cytoskeletal filaments defined by ultrastructural, immunological, and biochemical criteria. IFs differ significantly from the other cytoskeletal elements of the cell, namely microtubules and microfilaments, and are components of most eukaryotic cells.

Monoclonal Anti-Vimentin may be used for the immunocytochemical localization of vimentin in normal and pathological tissue of mesenchymal origin, as well as for immunofluorescent labeling of cultured mammalian cells. The antibody localizes vimentin in fibroblasts, endothelial cells, lymphoid tissue, and melanocytes. The antibody stains tumors derived from these cells including sarcomas, lymphomas, melanomas, and their metastatic lesions.

Reagent

The antibody is provided as ascites fluid with 15 mM sodium azide as preservative.

Precautions and Disclaimer

Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Product Profile

By immunohistochemistry, a minimum working antibody dilution of 1:40 is recommended using formalin-fixed, paraffin embedded sections of human tissue.

By immunoblotting, a minimum working antibody dilution of 1:200 is recommended using human fibroblasts HS-68.

In order to obtain best results, it is recommended that each individual user determine the optimum working dilution for their system by titration assay.

KAA 11/05

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