MONOCLONAL ANTI-VIMENTIN
Clone LN-6
Mouse Ascites Fluid

Product Number V2258

Product Description
Monoclonal Anti-Vimentin (mouse IgM isotype) is derived from the LN-6 hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Human thymic nuclear extract was used as the immunogen. The isotype is determined using Sigma ImmunoType™ Kit (Product Code ISO-1) and by a double diffusion immunodiffusion assay using Mouse Monoclonal Antibody Isotyping Reagents (Product Code ISO-2).

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. Vimentin is one of the five major groups of IFs protein, with a molecular weight of 58 kDa. Monoclonal antibodies reacting specifically with vimentin have proved to be valuable tools for use in immunocytocchemical localization of vimentin in normal and pathological tissue of mesenchymal origin, and for immunofluorescent labeling of vimentin-containing cultured cells. These antibodies may be used to localize vimentin in fibroblasts, endothelial cells, melanocytes, chondrocytes etc. The antibodies react with tumors derived from these cells, including sarcomas, melanomas, meningiomas, and their metastatic lesions. They are useful for identifying undifferentiated tumors particularly in conjunction with other antibodies. Co-expression of vimentin with one or more of the other IFs is observed in a variety of normal and neoplastic nonmesenchymal tissues. Such co-expression is unusual. Certain anti-vimentin antibodies do not stain lymphoid cells or their derived malignancies. Thus, they are useful in the differentiation of sarcomas from lymphomas.

Reagents
The product is provided as ascites fluid with 0.1% 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
Monoclonal Anti-Vimentin recognizes an epitope of the cytoskeletal protein vimentin (58 kDa), that is not detected in human lymphoid cells or derived malignancies. The antibody may be used to stain frozen, B5-fixed and formalin-fixed, paraffin-embedded tissue sections. The antibodies react with tumors derived from these cells, including sarcomas, melanomas, meningiomas, and their metastatic lesions. They are useful for identifying undifferentiated tumors particularly in conjunction with other antibodies. Co-expression of vimentin with one or more of the other IFs is observed in a variety of normal and neoplastic nonmesenchymal tissues. Such co-expression is unusual. Certain anti-vimentin antibodies do not stain lymphoid cells or their derived malignancies. Thus, they are useful in the differentiation of sarcomas from lymphomas.
In order to obtain best results, it is recommended that each individual user determine the optimum working dilution for their system by titration assay.

References