|  |  |
| --- | --- |
| Clone | V9 |
| Source | Mouse Monoclonal |
| Cat # | PM104-6ml RTU PM104-3ml RTU CM104-0.1ml Conc CM104-0.5ml Conc HAM104-6ml RTU HAM104-3ml RTU |
| Regulatory Status | IVD |

Vimentin (V9)

**Intended Use:**

This antibody is intended for use to qualitatively identify Vimentin antigen by light microscopy in formalin fixed, paraffin embedded tissue sections using immunohistochemical detection methodology. Interpretation of any positive or negative staining must be complemented with the evaluation of proper controls and must be made within the context of the patient’s clinical history and other diagnostic tests. A qualified pathologist must perform evaluation of the test.

**Summary and Explanation:**

Vimentin is ubiquitously expressed in mesenchymal cells such as fibroblasts, smooth muscle cells, and endothelium. Co-expression of Vimentin and Cytokeratin is indicative of epitheloid sarcoma. Vimentin expression may change as a tumor becomes more aggressive.

The antibody is specific for Vimentin and does not recognize any other intermediate filaments, including desmin and glial fibrillary acidic protein (GFAP). It is used as part of an antibody panel (e.g. antibodies against other types of intermediate filaments) for differential diagnostics especially in soft tissue tumors. The antibody also serves as an internal control system to monitor any antigenic damage suffered by formalin-sensitive epitopes on other diagnostically useful molecules.

**Immunogen:**Purified vimentin from pig eye lens

**Isotype:** IgG1

**Reagent Provided:   
 Concentrated format:** Antibody to Vimentin is diluted in antibody diluent, with 1% bovine serum   
 albumin (BSA) and 0.05% sodium azide (NaN3). Recommended dilutions: 1:50 –   
 1:100.The antibody dilution and protocol may vary depending on the specimen   
 preparation and specific application. Optimal conditions should be   
 determined by individual laboratory.

**Pre-diluted format:** PathnSitu ready to use antibodies are pre tittered to optimal staining   
 conditions. Further dilution may loose the activity and may yield to sub   
 optimal staining.

**Storage Recommendations:** Store at 2°-8°C. Do not use after expiration date provided on the vial.

**Staining Recommendations:   
 Antigen Retrieval Solution:** Use **Tris- EDTA Buffer(PathnSitu Cat # PS009)** as antigen retrieval   
 solution Heat Retrieval Method: Retrieve sections under steam pressure   
 for 15 min using PathnSitu’s MERS (Multi Epitope Retrieval System) then   
 allow solution to cool for 10 minutes then transfer tissue sections/slides to   
 distilled water.

**Primary Antibody:**  Cover the tissue sections with primary antibody and incubate for 30   
 min at room temperature when used PathnSitu PolyExcel Detection   
 System.

**Detection System:** Refer to PathnSitu PolyExcel detection system protocol or manufacturer’s detection kit staining protocol when used other vendor detection system.

**Cellular Localization:** Cytoplasm

**Positive Control:** Tonsil, Appendix

**Troubleshooting:** Follow the antibody specific protocol recommendations according to data sheet provided. If unusual results occur, contact PathnSitu Technical Support at 040-2701 5544 or techsupposrt@pathnsitu.com.

**Limitations and Warranty:** There are no warranties, expressed or implied, which extend beyond this   
 description. PathnSitu is not liable for property damage, personal injury, or   
 economic loss caused by this product.

**Bibliography:**  1. Osborn M, et al. Eur J Cell Biol. 1984 May;34(1):137-43   
 2. Azumi N, et al. Am J ClinPathol. 1987 Sep;88(3):286-96   
 3. Battifora H. Am J ClinPathol. 1991 Nov;96(5):669-71