

Human Vimentin, clone V9 Monoclonal Antibody

Catalog No.: MON3005-1

Quantity: 1 ml

Specificity

Vimentin is the major subunit protein of the intermediate filaments of mesenchymal cells, and has a molecular weight of 57 kD. Immunohistochemical staining for Vimentin is thus characteristic of sarcomas (of neural, muscle and fibroblast origin) compared to carcinomas which are generally negative. Melanomas, lymphomas and vascular tumors may all stain for Vimentin. Vimentin antibodies are thus of value in the differential diagnosis of malignant tumors, generally used with a panel of other antibodies including those recognizing cytokeratins, lymphoid markers, S100, desmin and neurofilaments. The antibody stains the 57 kD vimentin band in immunoblots performed on a lysate of normal human lymphocytes. It does not stain mouse or rat vimentin.

Crossreactivity

GFAP: not detectable
Keratin: not detectable
Neurofilament: not detectable
Desmin: not detectable

Immunoglobulin type

Murine IgG₁

Use

The antibody stains all cells containing vimentin. It can be used on frozen sections and also on formalin fixed and paraffin embedded tissues if pre-treated with trypsin. This antibody can also be used in Western blotting.

Instructions for use

For use in staining of paraffin sections dilute approximately 1:50 - 1:100, the working dilution for frozen sections is approximately 1:300, in PBS. Trypsin digestion of paraffin sections may be required. An excellent result on paraffin embedded tissues could be obtained with a TUF (cat.no. T10333) pretreatment. An appropriate working dilution for Western blotting should be tested by serial dilution.

Presentation

1 ml purified supernatant in PBS with approximately 30 µg antibody/ml and 20mM sodium azide and 1% BSA. Cat.nr. MON3005-1.

5 ml purified supernatant in PBS with approximately 30 µg antibody/ml and 20mM sodium azide and 1% BSA. Cat.nr. MON3005-5.

Literature

- Debus, E., et al., 1984, European of Cell Biology 34, 137-143.

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