

**BM5050S****Monoclonal Antibody to Vimentin - Supernatant****Alternate names:**

VIM

**Quantity:**

1 ml

**Concentration:**

~30 µg antibody/ml

**Background:**

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.

**Uniprot ID:**[P08670](#)**NCBI:**[NP\\_003371.2](#)**GeneID:**[7431](#)**Host / Isotype:**

Mouse / IgG1

**Clone:**

V9

**Immunogen:**

Vimentin isolated from Cow lens.

**Format:****State:** Liquid purified Supernatant**Buffer System:** PBS**Preservatives:** 20 mM Sodium Azide**Stabilizers:** 1% BSA**Applications:****Western blotting.****Immunohistochemistry on Frozen Sections:** ~1/300 in PBS**Immunohistochemistry on Formalin-Fixed, Paraffin Embedded Sections:** ~1/50-1/100.

Trypsin digestion of Paraffin Sections may be required.

An excellent result on paraffin embedded tissues could be obtained with a TUF pretreatment.

**Positive Control:** Sarcoma or Melanoma.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:**

The antibody clone V9 stains the 57 kD Vimentin band in Immunoblots performed on a lysate of normal Human lymphocytes.

It **does not** stain Mouse or Rat Vimentin.

The antibody stains all cells containing Vimentin.

**Cross reactivity:**

GFAP: not detectable.

Keratin : not detectable.

Neurofilamen: not detectable.

Desmin: not detectable.

***Cellular Localization:*** Cytoplasmic.

**Species Reactivity:**

**Tested:** Human.

**Storage:**

Store undiluted at 2-8°C.

Shelf life: One year from despatch.

**General Readings:**

1. Osborn M, Debus E, Weber K. Monoclonal antibodies specific for vimentin. Eur J Cell Biol. 1984 May;34(1):137-43. PubMed PMID: 6428888.

**Pictures:**

Formalin-Fixed, Paraffin-Embedded  
Human solid fibrous tumor stained with  
anti-Vimentin antibody using peroxidase  
conjugate and DAB chromogen. Note the  
cytoplasmic staining of tumor cells.

