



Category: Monoclonal Antibodies
Product Name: Mouse Monoclonal Antibody to Vimentin

Catalog Number: MAB-606020118

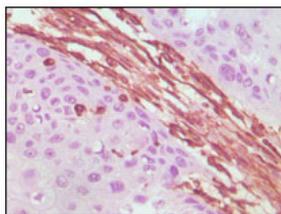
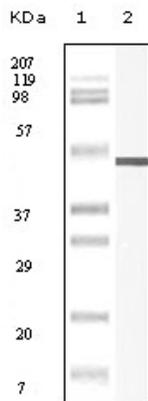


Figure 2: Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue, showing cytoplasmic localization using Vimentin mouse mAb with DAB staining.

Lot#:
Clone#: 9E7E7,
5G3F10,5G3F10E5
Host and isotype: Mouse IgG1
Size: 0.1ml
MW:
Aliases: FLJ36605; VIM
Entrez Gene: 7431
Species reactivity: Human

Figure 1: Western blot analysis using Vimentin mouse mAb against truncated Vimentin recombinant protein.

Description Vimentin is the major subunit protein of the intermediate filaments of mesenchymal cells. It is believed to be involved with the intracellular transport of proteins between the nucleus and plasma membrane. Vimentin has been implicated to be involved in the rate of steroid synthesis via its role as a storage network for steroidogenic cholesterol containing lipid droplets. Vimentin phosphorylation by a protein kinase causes the breakdown of intermediate filaments and activation of an ATP and myosin light chain dependent contractile event. This results in cytoskeletal changes that facilitate the interaction of the lipid droplets within mitochondria, and subsequent transport of cholesterol to the organelles leading to an increase in steroid synthesis. Immunohistochemical staining for Vimentin is 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 undifferentiated neoplasms and malignant tumors. They are generally used with a panel of other antibodies including those recognising cytokeratins, lymphoid markers, S100, desmin and neurofilaments.

Immunogen Purified recombinant fragment of Vimentin expressed in E. Coli.

Application Western Blotting: 1/500 - 1/2000.
Immunohistochemistry: 1/200 - 1/1000.
ELISA: Propose dilution 1/10000.
Not yet tested in other applications.
Determining optimal working dilutions by titration test.

Formulation Ascitic fluid containing 0.03% sodium azide.

Storage Store at 4iæ, for long term storage, store at -20iæ. **Related product References** 1. Seshadri, R., et al. Intl. J. Cancer 67: 353-356(1996)
2. Essa, T.M., et al. J. Egyptian Soc. Parasitol. 26:433-442(1996)
3. Chu, Y.W., et al. Amer.J. Pathol. 148: 63-69(1996)

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