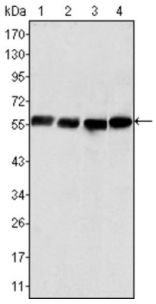
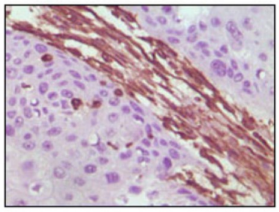
Vimentin (VIM) Antibody

Catalogue No.:abx016062



Western blot analysis using Vimentin antibody against Hela (1), COS (2), HEK293 (3) and U20S (4) cell lysate.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue, showing cytoplasmic localization using Vimentin antibody with DAB staining.

Vimentin, also know as VIM.It 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.

Target:	Vimentin (VIM)
Clonality:	Monoclonal
Reactivity:	Human, Monkey
Tested Applications:	ELISA, WB, IHC
Host:	Mouse
Recommended dilutions:	ELISA: 1/10000, WB: 1/500 - 1/2000, IHC: 1/200 - 1/1000. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated

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Immunogen:	Purified recombinant fragment of Vimentin (aa2-466) expressed in E. coli.
Isotype:	IgG_1
Form:	Liquid
Purification:	Unpurified ascites.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
GeneID:	7431
Molecular Weight:	54 kDa
Buffer:	Ascitic fluid containing 0.03% sodium azide.
Concentration:	Not determined.
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

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