10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Vimentin (Mesenchymal Cell Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone LN-6]
Catalog # AH12516

Product Information

Application	IF, FC, IHC-P
Primary Accession	P08670
Other Accession	7431, 455493
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Bovine, Sheep, Cat
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgM
Clone Names	LN-6
Calculated MW	53652

Additional Information

Gene ID	7431
Other Names	Vimentin, VIM
Application Note	IF~~1:50~200 FC~~1:10~50 IHC-P~~N/A
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	Vimentin (Mesenchymal Cell Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	VIM (HGNC:12692)
Function	Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or terminally. Plays a role in cell directional movement, orientation, cell sheet organization and Golgi complex polarization at the cell migration front (By similarity). Protects SCRIB from proteasomal degradation and facilitates its localization to intermediate filaments in a cell contact-mediated manner (By similarity).
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton. Nucleus matrix {ECO:0000250|UniProtKB:P31000}. Cell membrane {ECO:0000250|UniProtKB:P20152}

Tissue Location	Highly expressed in fibroblasts, some expression in T- and B-lymphocytes, and little or no expression in Burkitt's lymphoma cell lines. Expressed in many hormone-independent mammary carcinoma cell lines.

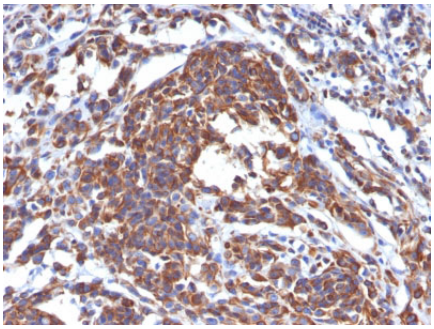
Background

This MAb reacts with a 58kDa protein identified as vimentin. It reacts with a non-hematopoietic epitope of vimentin and shows no cross-reaction with other closely related intermediate filament proteins (IFPā€™s) such as desmin, keratin, neurofilament, and glial fibrillary acid protein. Vimentin is ubiquitously expressed in mesenchymal cells such as fibroblasts, smooth muscle cells, and endothelium. Antibody against vimentin is useful as part of an antibody panel for differential diagnosis of tumors of unknown origin. Ab-2 does not react with leukocyte common antigen-positive tissues such as lymphomas and leukemias.

References

Stathopoulos, E., et al., J. Histochem. Cytochem. 37, 1363 (1989)

Images



Formalin-fixed, paraffin-embedded human Melanoma stained with Vimentin Monoclonal Antibody (LN-6).