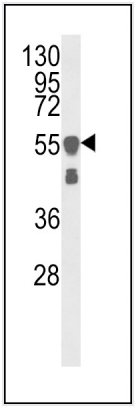
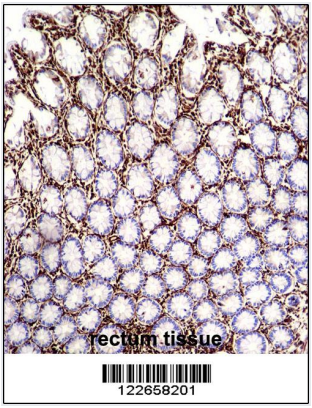
VIME (VIM) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

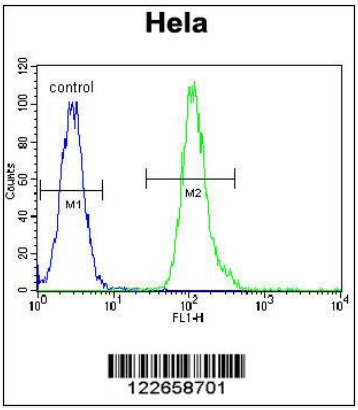
Product Name	VIME, Polyclonal Antibody
Full Product Name	VIME Antibody
Product Gene Name	anti-VIM antibody
Product Synonym Names	Vimentin; VIM
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This Vimentin antibody is generated from rabbits immunized with Vimentin recombinant protein.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	53652
OMIM	116300
3D Structure	ModBase 3D Structure for P08670
Antigen Type	Recombinant Protein
Antigen Source	HUMAN
Product Categories/Family for anti-VIM antibody	Cancer; Developmental biology; Neuroscience; Signal transduction
Applications Tested/Suitable for anti-VIM antibody	Flow Cytometry (FC/FACS), ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-VIM antibody	WB~~1:1000
Related Product Information for anti-VIM antibody	VIME is a member of the intermediate filament family. Intermediate filamentents, along with microtubules and actin microfilaments, make up the cytoskeleton. This protein is responsible for maintaining cell shape, integrity of the cytoplasm, and stabilizing cytoskeletal interactions. It is also involved in the immune response, and controls the transport of low-density lipoprotein (LDL)-derived cholesterol from a lysosome to the site of esterification. It functions as an organizer of a number of critical proteins involved in attachment, migration, and cell signaling.
Product References and Citations for anti-VIM antibody	Morishima,N., Genes Cells 4 (7), 401-414 (1999)
Other Notes	Small volumes of anti-VIM antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for VIM purchase	MBS9211419 is an antibody targeting VIM. Also known as VIME Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-VIM antibody
Western blot analysis of VIME Antibody in A375 cell line lysates (35ug/lane). VIME (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-VIM antibody
VIME Antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human rectum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of VIME Antibody for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-VIM antibody
VIME Antibody flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VIM. It may not necessarily be applicable to this product.

NCBI GI #	62414289
NCBI GeneID	7431
NCBI Accession #	NP_003371.2
UniProt Primary Accession #	P08670
UniProt Secondary Accession #	Q15867; Q15868; Q15869; Q548L2; Q6LER9; Q8N850; Q96ML2; Q9NTM3; B0YJC2; D3DRU4
UniProt Related Accession #	P08670
GenBank Nucleotide #	NM_003380.3
NCBI Official Full Name	vimentin
NCBI Official Synonym Full Names	vimentin
NCBI Official Symbol	VIM
NCBI Official Synonym Symbols	HEL113; CTRCT30
UniProt Protein Name	Vimentin
Protein Family	Vimentin

UniProt Gene Name	VIM
UniProt Entry Name	VIME_HUMAN
NCBI Protein Information	vimentin
NCBI Summary for VIM	This gene encodes a member of the intermediate filament family. Intermediate filamentents, along with microtubules and actin microfilaments, make up the cytoskeleton. The protein encoded by this gene is responsible for maintaining cell shape, integrity of the cytoplasm, and stabilizing cytoskeletal interactions. It is also involved in the immune response, and controls the transport of low-density lipoprotein (LDL)-derived cholesterol from a lysosome to the site of esterification. It functions as an organizer of a number of critical proteins involved in attachment, migration, and cell signaling. Mutations in this gene causes a dominant, pulverulent cataract.[provided by RefSeq, Jun 2009]
UniProt Comments for VIM	Vimentin: an intermediate filament protein. Intermediate filament proteins are expressed in a tissue-specific manner. Desmin is the subunit specific for muscle and vimentin the subunit specific for mesenchymal tissue. Protein type: Cytoskeletal; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 10p13 Cellular Component: intermediate filament cytoskeleton; neuron projection; focal adhesion; cytoskeleton; leading edge; cytoplasm; plasma membrane; intermediate filament; peroxisome; cytosol Molecular Function: protein C-terminus binding; identical protein binding; protein binding; structural constituent of cytoskeleton; double-stranded RNA binding; glycoprotein binding; structural constituent of eye lens Biological Process: Bergmann glial cell differentiation; viral reproduction; apoptosis; intermediate filament organization; cell motility; astrocyte development; cell structure disassembly during apoptosis; muscle filament sliding Disease: Cataract 30
Research Articles on VIM	**1.** Authors propose a model whereby vimentin promotes FAK stabilization through VAV2-mediated Rac1 activation. This model may explain why vimentin expressing metastatic lung cancer cells are more motile and invasive.
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