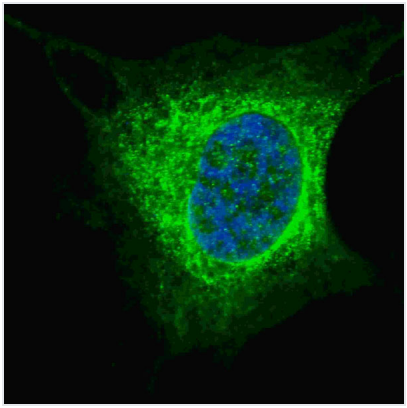
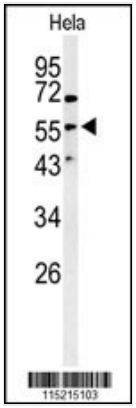
Vimentin (VIM) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

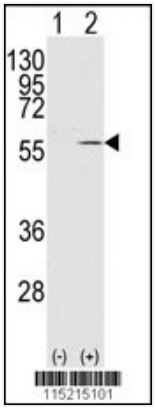
Product Name	Vimentin, Polyclonal Antibody
Full Product Name	Vimentin (S82) (VIM) (APC)
Product Gene Name	anti-VIM antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human VIM.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Do not freeze APC conjugates. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	53,652 Da
OMIM	193060
3D Structure	ModBase 3D Structure for P08670
Immunogen	Synthetic peptide corresponding to amino acid residues surrounding S82 of human VIM (KLH).
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-VIM antibody	Antibodies; Extracellular Matrix Proteins
Applications Tested/Suitable for anti-VIM antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-VIM antibody	IHC: 1:10-1:50 FLISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-VIM antibody	MBS6505762 is an antibody targeting VIM. Also known as Vimentin (S82) (VIM) (APC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-VIM antibody	1. Whipple, R.A., Cancer Res. 68(14), 5678-5688 (2008). 2. Garcia-Verdugo, I., Biochemistry 47(18), 5127-5138 (2008). 3. Merdes, A., J. Cell Biol. 115(2), 397-410 (1991).
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.



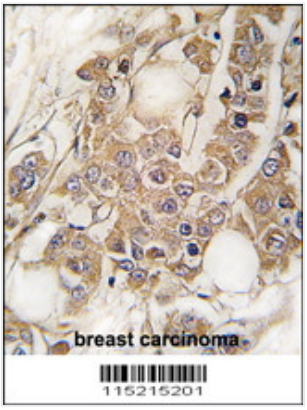
Immunofluorescence (IF) of anti-VIM antibody
Fluorescent confocal image of SY5Y cells stained with Vimentin (S82) antibody. SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AP2739a Vimentin (S82) primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). Note the highly specific localization of the Vimentin immunosignal to the cytoskeleton, supported by Human Protein Atlas Data.



Western Blot (WB) of anti-VIM antibody
Western blot analysis of Vimentin-S82 in Hela cell line lysates (35ug/lane). Vimentin (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-VIM antibody
Western blot analysis of VIM(arrow) using rabbit polyclonal Vimentin Antibody (S82). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the VIM gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-VIM antibody
Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with Vimentin Antibody (S82), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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
UniProt Primary Accession #	P08670
UniProt Secondary Accession #	Q15867; Q15868; Q15869; Q548L2; Q6LER9; Q8N850; Q96ML2; Q9NTM3; B0YJC2; D3DRU4
UniProt Related Accession #	P08670
GenBank Nucleotide #	NM_003380.4
NCBI Official Full Name	vimentin
NCBI Official Synonym Full Names	vimentin
NCBI Official Symbol	VIM
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 type III intermediate filament protein. Intermediate filaments, along with microtubules and actin microfilaments, make up the cytoskeleton. The encoded protein is responsible for maintaining cell shape and integrity of the cytoplasm, and stabilizing cytoskeletal interactions. This protein is involved in neuritogenesis and cholesterol transport and functions as an organizer of a number of other critical proteins involved in cell attachment, migration, and signaling. Bacterial and viral pathogens have been shown to attach to this protein on the host cell surface. Mutations in this gene are associated with congenital cataracts in human patients. [provided by RefSeq, Aug 2017]
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; cytoplasm; leading edge; 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.** Vimentin and its interaction with Shigella flexneri IpaC are dispensable for effector translocation pore formation, but are required for stable docking of Shigella flexneri to cells; moreover, stable docking triggers effector secretion.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-vim-human-antibody/vimentin/6505762