
Product Name: KD-Validated Phospho-Vimentin (Ser56) Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01696**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:50-1:100
Molecular Weight	Calculated MW: 53.7kDa

Antigen Information

Gene Name	VIM
Alternative Names	VIM; Vimentin; Epididymis Secretory Sperm Binding Protein 3
Gene ID	7431.0
SwissProt ID	P08670
Immunogen	A synthesized peptide derived from human Phospho-Vimentin (Ser56)

Background

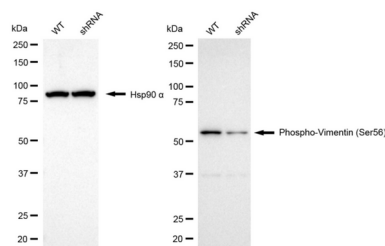
This gene encodes a type III intermediate filament protein. Intermediate filaments, along with microtubules and actin microfilaments, make up the cytoskeleton. The encoded protein is responsible for maintaining cell shape and integrity of the cytoplasm, and stabilizing cytoskeletal interactions. This protein is involved in neuriteogenesis 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]

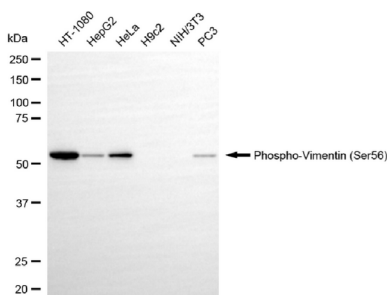
Research Area

Neuroscience, Signal Transduction, Stem Cells, Cancer, Developmental Biology

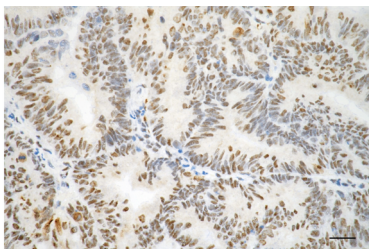
Image Data



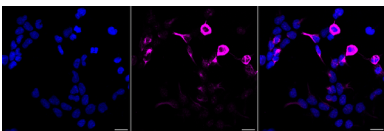
Western blotting analysis using phospho-vimentin (Ser56) antibody (KVA01696). Phospho-vimentin (Ser56) expression in wild-type (WT) and VIM shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with phospho-vimentin (Ser56) antibody (KVA01696, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



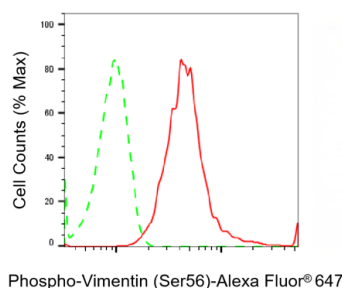
Western blotting analysis using phospho-vimentin (Ser56) antibody (KVA01696). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with phospho-vimentin (Ser56) antibody (KVA01696, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human endometrial carcinoma using phospho-vimentin (Ser56) antibody (KVA01696, 1:100). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells with Phospho-Vimentin (Ser56) protein antibody (KVA01696, 1:1,000). Nuclei were stained blue with DAPI; Phospho-Vimentin (Ser56) was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Phospho-Vimentin (Ser56) expression in HeLa cells using Phospho-Vimentin (Ser56) antibody (KVA01696, 1:2,000). Green, isotype control; red, Phospho-Vimentin (Ser56).

