

For Research Use Only

# Vimentin Polyclonal antibody

Catalog Number: 22031-1-AP

Featured Product

23 Publications



## Basic Information

### Catalog Number:

22031-1-AP

### Size:

150ul, Concentration: 240 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG16898

### GenBank Accession Number:

BC000163

### GeneID (NCBI):

7431

### ENSEMBL Gene ID:

ENSG00000026025

### UNIPROT ID:

P08670

### Full Name:

vimentin

### Calculated MW:

466 aa, 54 kDa

### Observed MW:

57 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:50-1:500

IF-P: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

### Positive Controls:

WB: HEK-293 cells, HeLa cells, mouse heart tissue, A549 cells

IHC: human ovary tumor tissue, human tonsillitis tissue, human normal colon

IF-P: human kidney tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Vimentin, also named as VIM, belongs to the intermediate filament family. Vimentin is class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is important for stabilizing the architecture of the cytoplasm. Monocyte-derived macrophages secrete vimentin into the extracellular space in vitro. Secretion of vimentin was enhanced by the proinflammatory cytokine tumor necrosis factor- $\alpha$  (TNF $\alpha$ ; 191160) and inhibited by the antiinflammatory cytokine IL10 (124092), suggesting that vimentin is involved in the immune response. Vimentin has specialized functions that contribute to specific dynamic cellular processes. As a phosphoprotein, 55-60 kDa of vimentin proteins can be observed due to the different phosphorylation level. Isoforms of vimentin (49 kDa and 60 kDa) had also been reported. (PMID: 8640945, 22728585).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yunfei Lu	40050872	J Transl Med	WB
Wei Liu	40114952	Transl Lung Cancer Res	WB
Wenwen Ping	40047734	Cytotherapy	WB,IHC

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

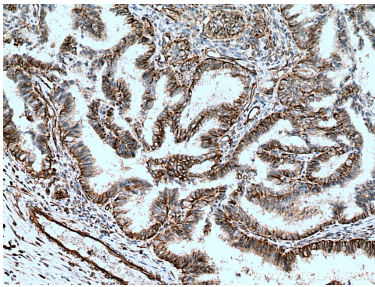
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

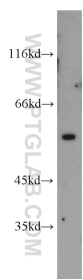
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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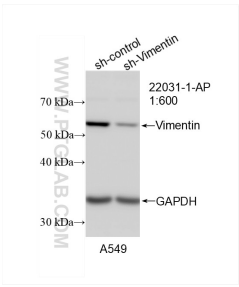
Selected Validation Data



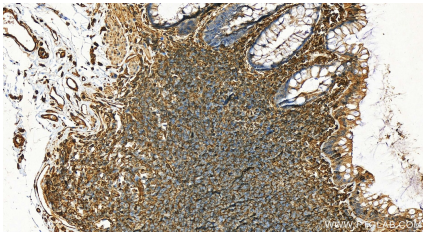
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 22031-1-AP (Vimentin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



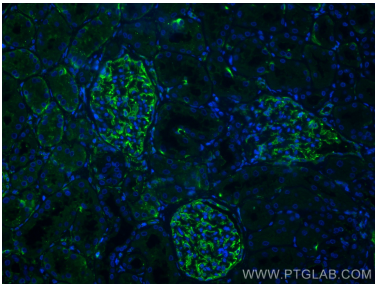
HEK-293 cells were subjected to SDS PAGE followed by western blot with 22031-1-AP (VIM antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



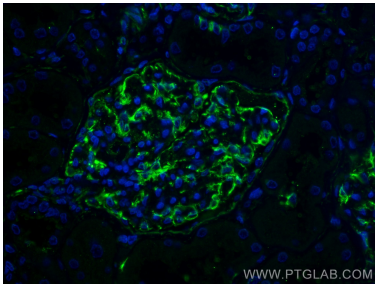
WB result of Vimentin antibody (22031-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-Vimentin transfected A549 cells.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 22031-1-AP (Vimentin antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using Vimentin antibody (22031-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using Vimentin antibody (22031-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).