

For Research Use Only

Vimentin Polyclonal antibody

Catalog Number: 22031-1-AP

Featured Product

16 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- α (TNF α ; 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
Wenjun Wu	39917009	Cytojournal	WB
Chunxiang Li	39675923	Expert Rev Anticancer Ther	WB
Jiayi Zhang	39547518	Biochim Biophys Acta Mol Basis Dis	IF

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

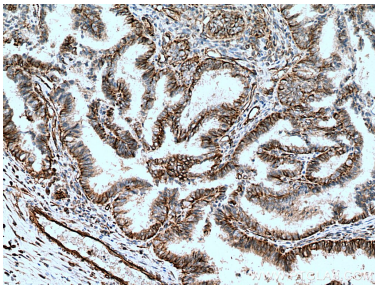
For technical support and original validation data for this product please contact:

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

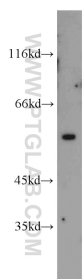
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

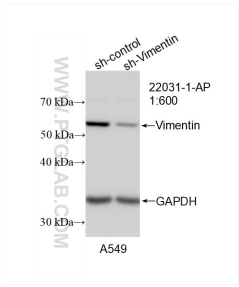
Selected Validation Data



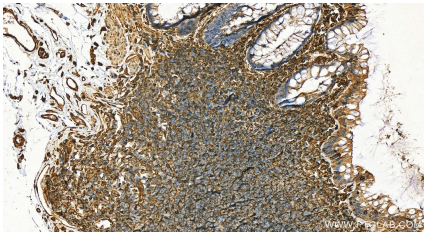
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 22031-1-AP (Vimentin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



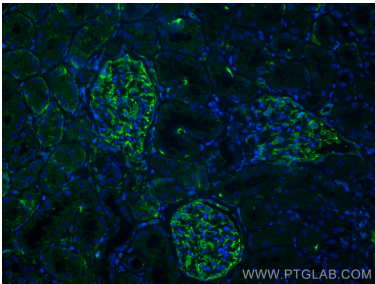
HEK-293 cells were subjected to SDS PAGE followed by western blot with 22031-1-AP (VIM antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



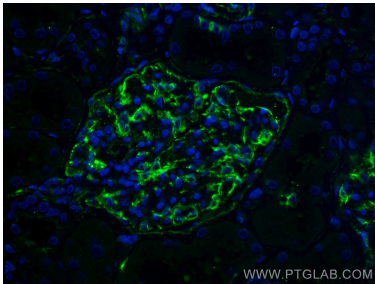
WB result of Vimentin antibody (22031-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-Vimentin transfected A549 cells.



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).