

For Research Use Only

Vimentin Recombinant antibody

Catalog Number: 80232-1-RR

Featured Product

2 Publications



Basic Information

Catalog Number:

80232-1-RR

Size:

100ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0489

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:

50-55 kDa

Purification Method:

Protein A purification

CloneNo.:

6K21

Recommended Dilutions:

WB: 1:20000-1:100000

IHC: 1:1250-1:5000

IF-Fro: 1:200-1:800

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-Fro, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human

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

Positive Controls:

WB: MCF-7 cells, U-251 cells, A549 cells, HeLa cells, U2OS cells, NIH/3T3 cells, 4T1 cells, ROS1728 cells, HSC-T6 cells

IHC: human breast cancer tissue, human colon tissue, human colon cancer tissue, human liver cancer tissue, human ovary cancer tissue

IF-Fro: mouse breast cancer,

IF/ICC: HeLa cells,

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 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
Hui Xu	39117967	J Neurooncol	WB,IF
Tao Tao	38842601	Mol Cancer Res	WB

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

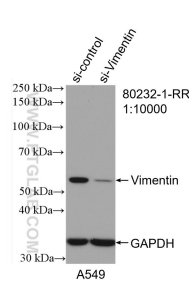
For technical support and original validation data for this product please contact:

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

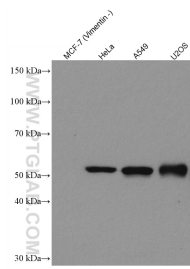
E: proteintech@ptglab.com
W: ptglab.com

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

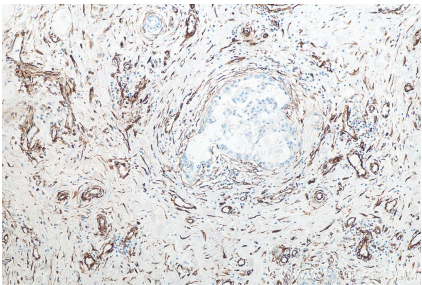
Selected Validation Data



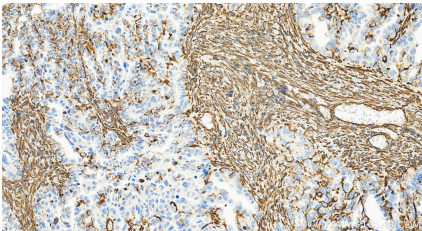
WB result of Vimentin antibody (80232-1-RR; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Vimentin transfected HeLa cells.



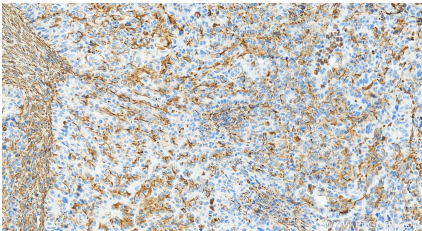
Various lysates were subjected to SDS PAGE followed by western blot with 80232-1-RR (Vimentin antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



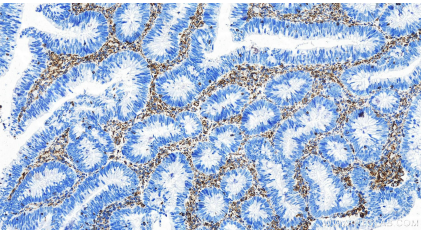
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 80232-1-RR (Vimentin antibody) at dilution of 1:2500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



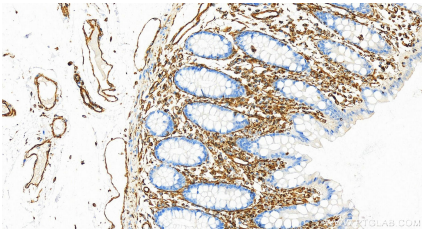
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 80232-1-RR (Vimentin antibody) at dilution of 1:10000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



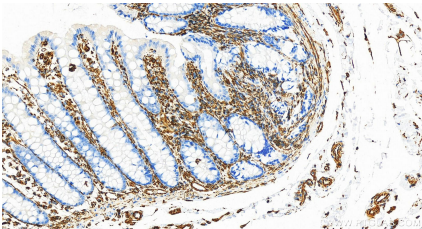
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 80232-1-RR (Vimentin antibody) at dilution of 1:10000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



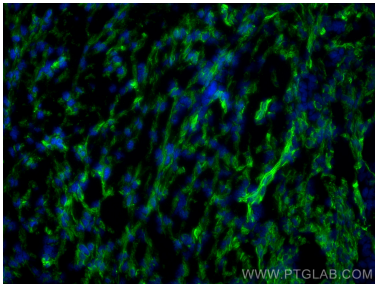
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 80232-1-RR (Vimentin antibody) at dilution of 1:10000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



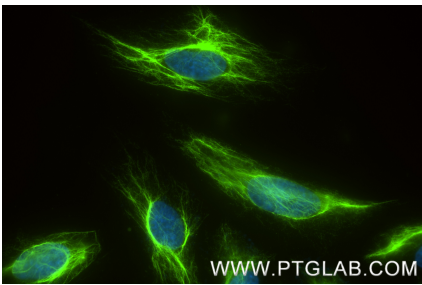
Immunohistochemical analysis of paraffin-embedded human normal colon slide using 80232-1-RR (Vimentin antibody) at dilution of 1:10000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 80232-1-RR (Vimentin antibody) at dilution of 1:10000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse breast cancer using Vimentin antibody (80232-1-RR, Clone: 6K21) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (-20°C Ethanol)
fixed HeLa cells using Vimentin antibody (80232-1-
RR, Clone: 6K21) at dilution of 1:400 and Multi-rAb
CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant
Secondary Antibody (H+L) (RGAR002).