

For Research Use Only

# Vimentin Monoclonal antibody

Catalog Number: 60330-1-Ig

Featured Product

307 Publications



## Basic Information

Catalog Number:

60330-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

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:

55-60 kDa

Purification Method:

Protein G purification

CloneNo.:

3H9D1

Recommended Dilutions:

WB: 1:20000-1:100000

IHC: 1:4000-1:16000

IF/ICC: 1:500-1:2000

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, rabbit, zebrafish

**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: HeLa cells, NIH/3T3 cells, ROS1728 cells, Jurkat cells, A549 cells, U2OS cells, U-251 cells

IHC: human appendicitis tissue, human breast cancer tissue, human colon tissue, human endometrial cancer tissue, human liver cancer tissue, human ovary tumor tissue, human pancreas tissue, human renal cell carcinoma tissue, human tonsillitis tissue

IF/ICC: HUVEC cells, HepG2 cells, Retinal organoids

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenjing Guo	33117682	Front Oncol	WB
Jianmin Li	32989231	Lab Invest	WB
Bingyu Xie	36179941	Mol Cell Endocrinol	WB, 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

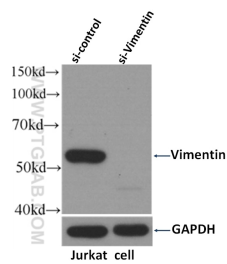
For technical support and original validation data for this product please contact:

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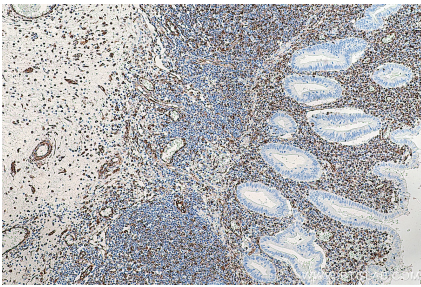
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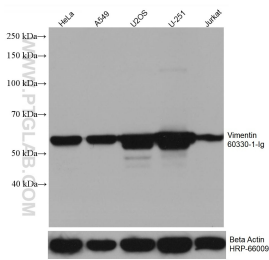
Selected Validation Data



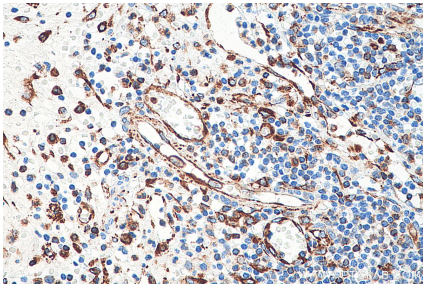
WB result of Vimentin antibody (60330-1-Ig, 1:4000) with si-Control and si-Vimentin transfected Jurkat cells.



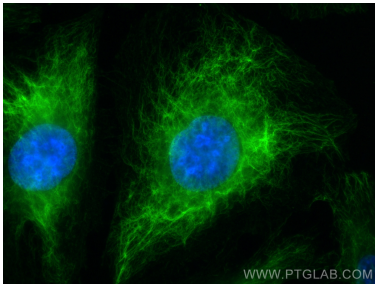
Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 60330-1-Ig (Vimentin antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 60330-1-Ig (Vimentin antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 60330-1-Ig (Vimentin antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HUVEC cells using Vimentin antibody (60330-1-Ig, Clone: 3H9D1 ) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).