

For Research Use Only

# Phospho-Vimentin (Ser56) Recombinant monoclonal antibody

Catalog Number: 87149-1-RR



## Basic Information

|  |   |   |
|--|---|---|
| <b>Catalog Number:</b><br>87149-1-RR                           | <b>GenBank Accession Number:</b><br>NM_003380 | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>7431                 | <b>CloneNo.:</b><br>252334B3                          |
| <b>Source:</b><br>Rabbit                                       | <b>ENSEMBL Gene ID:</b><br>ENSG0000026025     | <b>Recommended Dilutions:</b><br>WB: 1:5000-1:50000   |
| <b>Isotype:</b><br>IgG   | <b>UNIPROT ID:</b><br>P08670                  |   |
|  | <b>Full Name:</b><br>vimentin                 |   |
|  | <b>Calculated MW:</b><br>54 kDa               |   |
|  | <b>Observed MW:</b><br>57 kDa                 |   |

## Applications

|  |  |
|--|--|
| <b>Tested Applications:</b><br>WB, ELISA | <b>Positive Controls:</b><br>WB : paclitaxel treated Jurkat cells, paclitaxel treated HeLa cells |
| <b>Species Specificity:</b><br>human     |  |

## Background Information

Vimentin, also named as VIM, belongs to the intermediate filament family. Phospho-Vimentin (Ser56) is a phosphorylated form of the intermediate filament protein Vimentin that plays a significant role in regulating cellular functions such as smooth muscle contraction, cell migration, and mitosis. Phosphorylation of Vimentin at Ser-56 has been found to regulate vimentin depolymerization and the spatial reorientation of vimentin filaments, which modulates intercellular force transmission and contraction in smooth muscle. (PMID: 27457922)

## Storage

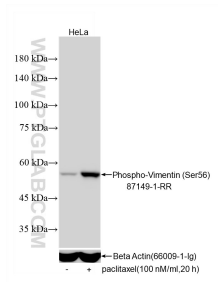
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

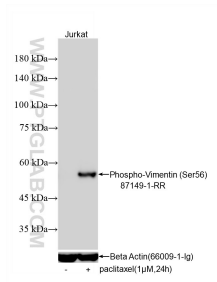
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



Non-treated HeLa cells and paclitaxel treated HeLa cells were subjected to SDS PAGE followed by western blot with 87149-1-RR (Phospho-Vimentin (Ser56) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (66009-1-Ig) antibody as a loading control.



Non-treated Jurkat cells and paclitaxel treated Jurkat cells were subjected to SDS PAGE followed by western blot with 87149-1-RR (Phospho-Vimentin (Ser56) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (66009-1-Ig) antibody as a loading control.