

For Research Use Only

# Phospho-Vimentin (Ser39) Recombinant monoclonal antibody

Catalog Number: 87714-1-RR



## Basic Information

**Catalog Number:**

87714-1-RR

**Size:**

100ul , Concentration: 1000 µg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_003380

**GeneID (NCBI):**

7431

**ENSEMBL Gene ID:**

ENSG00000026025

**UNIPROT ID:**

P08670

**Full Name:**

vimentin

**Calculated MW:**

54 kDa

**Observed MW:**

57 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

253259C10

**Recommended Dilutions:**

WB: 1:5000-1:50000

FC (Intra): 0.06 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

**Tested Applications:**

WB, FC (Intra), ELISA

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

**WB :** Calyculin A treated HeLa cells, PANC-1 cells, Calyculin A treated NIH/3T3 cells, Calyculin A treated HSC-T6 cells

**FC (Intra) :** Calyculin A treated HeLa cells,

## Background Information

Vimentin, a kind of intermediate filament protein III in mesenchymal cells, has become a highly researched topic around the world in recent years, as it holds complex biological functions and plays an important role in the epithelial-mesenchymal transition in the evolution of various tumors. Mesenchymal stem cells (MSCs) are widely studied for their application in cell therapy. The binding of AKT (tail region) to Vim (head region) results in Vim Ser39 phosphorylation enhancing the ability of Vim to induce motility and invasion while protecting Vim from caspase-induced proteolysis. (PMID: 33378968, PMID: 20856200, PMID: 31972217)

## 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**

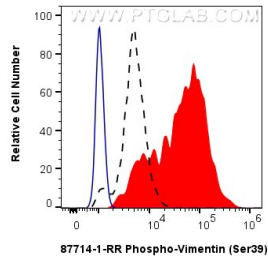
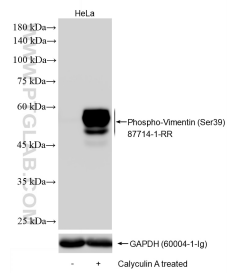
For technical support and original validation data for this product please contact:

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

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## Selected Validation Data



Non-treated HeLa cells and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 87714-1-RR (Phospho-Vimentin (Ser39) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (60004-1-Ig) antibody as a loading control.

$1 \times 10^6$  HeLa cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.06 ug Phospho-Vimentin (Ser39) Recombinant monoclonal antibody (87714-1-RR, Clone:253259C10) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.06 ug Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).