

For Research Use Only

# Phospho-Vimentin (Ser39) Recombinant monoclonal antibody, PBS Only

Catalog Number: 87714-1-PBS



## Basic Information

<b>Catalog Number:</b> 87714-1-PBS	<b>GenBank Accession Number:</b> NM_003380	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 7431	<b>CloneNo.:</b> 253259C10
<b>Isotype:</b> IgG	<b>ENSEMBL Gene ID:</b> ENSG00000026025	
	<b>UNIPROT ID:</b> P08670	
	<b>Full Name:</b> vimentin	
	<b>Calculated MW:</b> 54 kDa	
	<b>Observed MW:</b> 57 kDa	

## Applications

**Tested Applications:**  
WB, FC (Intra), Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## 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 -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS only, pH7.3

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

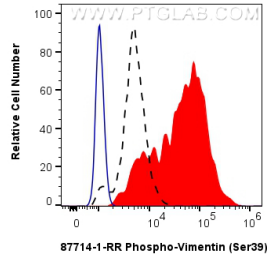
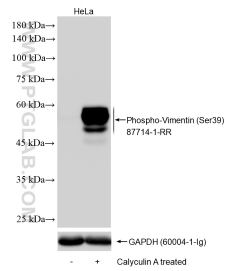
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## Selected Validation Data



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. This data was developed using the same antibody clone with 87714-1-PBS in a different storage buffer formulation.

$1 \times 10^6$  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).

