

For Research Use Only

Phospho-Vimentin (Ser39) Recombinant monoclonal antibody

Catalog Number: 87714-1-RR



Basic Information

Catalog Number:

87714-1-RR

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 10⁶ 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

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

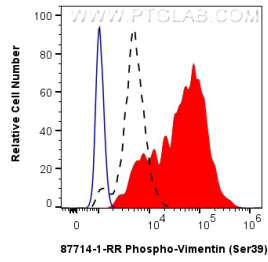
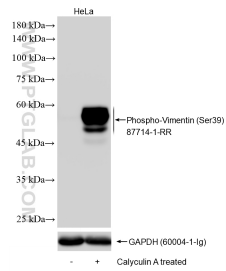
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Selected Validation Data



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.

1×10^6 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).