

For Research Use Only

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



Catalog Number: 87714-1-PBS

Basic Information

Catalog Number: 87714-1-PBS	GenBank Accession Number: NM_003380	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 7431	CloneNo.: 253259C10
Source: Rabbit	ENSEMBL Gene ID: ENSG0000026025	
Isotype: IgG	UNIPROT ID: P08670	
	Full Name: vimentin	
	Calculated MW: 54 kDa	
	Observed MW: 57 kDa	

Applications

Tested Applications:
WB, 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

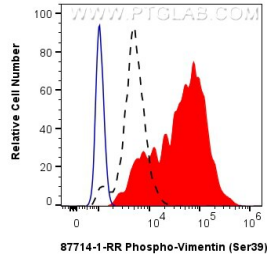
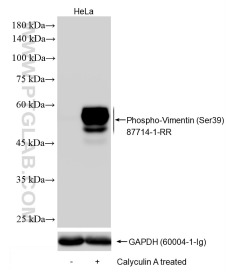
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

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 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.

1X10⁶ 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).

