

AB-PN544

VIM-pY117 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human VIM



KINEXUS

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Target Protein

Name Long:	Vimentin
Alias:	FLJ36605; VIME
UniProt ID:	P08670
Sequence Predicted Mass (KDa):	53.652 (466 AA; P08670-1)
Observed SDS-PAGE Mass (KDa):	50-57

Immunogen

Antibody Immunogen Source:	Human VIM sequence peptide Cat. No.: PE-04AEW99
Antibody Immunogen Sequence:	FAN(pY)IDK(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues F114 to K120; In the N-terminal part of the Filament domain. One of the major in vivo phosphorylation sites in VIM.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-117

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipеп peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	0.75 mg/ml
Lot Number:	141003
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

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Applications

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	Strong immunoreactivity with immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium-strong immunoreactivity of a target-sized protein by Western blotting in A431 cells.
Overall Antibody Specificity:	Medium-High selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in A431, HeLa MCF7 and T98G cells and sea star oocytes, except for 65 and 140 KDa cross-reactive proteins in A431, MCF7 and T98G cells, and a strongly reactive 35 KDa protein in T98G cells.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)