

AB-PN543

VAV1-pY826 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human VAV1



KINEXUS

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Target Protein

Name Long:	Vav 1 guanine nucleotide exchange factor
Alias:	VAV; vav 1 guanine nucleotide exchange factor; Vav proto-oncogene
UniProt ID:	P15498
Sequence Predicted Mass (KDa):	98.314 (845 AA; P15498-1)
Observed SDS-PAGE Mass (KDa):	100-110

Immunogen

Antibody Immunogen Source:	Human VAV1 sequence peptide Cat. No.: PE-04AEO99
Antibody Immunogen Sequence:	GEI(pY)GRV(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues G823 to V829; In the SH3_1 domain
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-826

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 multipep 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:	1 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:	Medium immunoreactivity with immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium immunoreactivity of a target-sized protein by Western blotting in Jurkat cells.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in HeLa cells and sea star oocytes. ~45-47 KDa and ~80 KDa cross-reactive proteins were also detectable in Jurkat 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)