

AB-PN641

PML-pS518 Antibody

Phosphosite-specific rabbit polyclonal antibody for PML. This phosphoserine-site antibody also cross-reacts with phosphothreonine, threonine and glutamic acid substitutions, and weakly with a phosphotyrosine

Website: www.kinexus.ca
Email: info@kinexus.ca
Phone: 604-323-2547



Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Target Protein

Protein Name Long:	Probable transcription factor PML
Protein Alias:	MYL; Promyelocytic leukemia; RNF71; TRIM19; Tripartite motif protein 19; Tripartite motif-containing protein 19
UniProt ID:	P29590
Protein Molecular Mass:	97,551 Da (882 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PML
Antibody Immunogen Sequence:	SKAV(pS)PPH(β)C
Antibody Immunogen Description:	Corresponds to amino acid residues S514 to H521. S518 prevents ubiquitination by the BCR(KLHL20) E3 ubiquitin ligase complex and inhibits cell apoptosis. Phosphorylation of S518 also induces interaction with C/EBP-epsilon, KLHL20 and PIN1. This is a major site of <i>in vivo</i> phosphorylation of PML (≥ 83 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). PML is known to be phosphorylated at this site <i>in vitro</i> by CDK1 (CDC2), and CDK2.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipепptide 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 these animals 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.
Amount:	25 μ g
Antibody Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	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.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Chimpanzee Rhesus macaque Mouse

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 <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987