

AB-PN976

NPM-pT199 Antibody

Phosphosite-specific rabbit polyclonal antibody for NPM1 (B23). This phosphothreonine-site antibody is highly specific for phosphothreonine in the phosphosite.

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Target Protein

Protein Name Long:	Nucleophosmin
Protein Alias:	B23; Nucleolar phosphoprotein B23; Nucleolar protein NO38; Nucleophosmin (Nucleolar phosphoprotein B23, numatrin); Nucleophosmin/B23.2; Numatrin
UniProt ID:	P06748
Protein Molecular Mass:	32,575 Da (294 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human NPM
Antibody Immunogen Sequence:	CSIRD(pT)PAK
Antibody Immunogen Description:	Corresponds to amino acid residues S1957 to K202. T199 phosphorylation inhibits functional activity, and binding to MDM2 and RNA, and transcription. This is a major <i>in vivo</i> phosphorylation site in NPM1 (≥54 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). NPM1 is known to be phosphorylated at this site <i>in vitro</i> by CDC7 (CDC7L1), CDK1 (CDC2), CDK2, CDK6, and COT (MAP3K8).
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 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 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 µg
Antibody Concentration:	0.95 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 Dog Rat Mouse Platypus

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