

AB-PN978

RB-pT373 Antibody

Phosphosite-specific rabbit polyclonal antibody for Rb (RB1). This phosphothreonine-site antibody also cross-reacts with a glutamic acid substitution in the phosphosite.

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Target Protein

Protein Name Long:	Retinoblastoma-associated protein 1
Protein Alias:	P105-Rb; Pp110; PRb
UniProt ID:	P06400
Protein Molecular Mass:	106,159 Da (928 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human RB
Antibody Immunogen Sequence:	IPPH(pT)PVR(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues I369 to R376. T373 phosphorylation inhibits interaction with EF21. This is one of the major sites of <i>in vivo</i> phosphorylation of Rb based on ≥ 86 mass spectrometry reports recorded in PhosphoSitePlus. Rb is known to be phosphorylated at this site <i>in vitro</i> by CDK1 (CDC2), CDK2, and CDK4.
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 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 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 $+4^{\circ}\text{C}$ 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 Chicken

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