

AB-PN648

RARA-pS77 Antibody

Phosphosite-specific rabbit polyclonal antibody for RARA. This phosphoserine-site antibody is highly specific for phosphoserine in the phosphosite.

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:	Retinoic acid receptor alpha
Protein Alias:	Nuclear receptor subfamily 1 group B member 1
UniProt ID:	P10276
Protein Molecular Mass:	50,771 Da (462 AA; P10276)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human RARA
Antibody Immunogen Sequence:	PSPP(pS)PPP(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues P73 to P80. S77 phosphorylation stimulates transcriptional activity, and regulates protein degradation and molecular association, including inducing interaction with DNA, N-CoR1, Pin1, and inhibiting interaction with SRC-3. This is one of the minor sites of <i>in vivo</i> phosphorylation of RARA based on ≥ 2 mass spectrometry reports recorded in PhosphoSitePlus. RARA is known to be phosphorylated at this site <i>in vitro</i> by CDK1 (CDC2), and CDK7.
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°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 Mouse Platypus Chicken Frog

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