

AB-PN601

GR-pS226 Antibody

Phosphosite-specific rabbit polyclonal antibody for GR (NR3C1). This phosphoserine-site antibody also cross-reacts with phosphothreonine, serine, threonine and glutamic acid substitutions in the phosphosite.

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Target Protein

Protein Name Long:	Glucocorticoid receptor
Protein Alias:	GCR; GRL; GRL1; NR3C1; Nuclear receptor subfamily 3, group C, member 1
UniProt ID:	P04150
Protein Molecular Mass:	865,659 Da (777 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human GR
Antibody Immunogen Sequence:	LL(pS)PLAGC
Antibody Immunogen Description:	Corresponds to amino acid residues L224 to G230. S226 phosphorylation inhibits transcriptional activity, and regulates intracellular location and molecular association, including inducing interaction with GRIP1. This is one of the major <i>in vivo</i> phosphorylation sites in the glucocorticoid receptor (≥ 10 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). GR is known to be phosphorylated at this site <i>in vitro</i> by CDK5, ERK2 (MAPK1), JAK1, JNK1 (MAPK8), JNK2 (MAPK9), and JNK3 (MAPK10).
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 multi-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:	0.5 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerosal
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 Rhesus macaque Dog Rat Mouse Platypus 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