

# AB-PN636

## Nur77-pS351 Antibody

Phosphosite-specific rabbit polyclonal antibody for Nur77. This phosphoserine-site antibody also cross-reacts with phosphothreonine, phosphotyrosine and glutamic acid substitutions.

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### Target Protein

<b>Protein Name Long:</b>	Nuclear receptor subfamily 4 group A member 1
<b>Protein Alias:</b>	Early response protein NAK1; GFRP; GFRP1; HMR; N10; N10 nuclear protein; NAK1; NAK-1; NGFIB; NGFI-B; NR4A1; Nuclear hormone receptor NUR/77; Nuclear receptor subfamily 4, group A, member 1; NUR77; Orphan nuclear receptor HMR; TR3; TR3 orphan receptor
<b>UniProt ID:</b>	P22736
<b>Protein Molecular Mass:</b>	64,463 Da (598 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human Nur77
<b>Antibody Immunogen Sequence:</b>	CGRLP(pS)KPKQ
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues G347 to Q355. S351 phosphorylation inhibits transcriptional activity and regulates apoptosis and cytoskeletal reorganization. This is the major <i>in vivo</i> phosphorylation site in Nur77 ( $\geq 4$ reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). Nur77 is known to be phosphorylated at this site <i>in vitro</i> by Akt1 (PKBa), MSK1 (RPS6KA5), PKACa (PRKACA), RSK1 (RPS6KA1), and RSK2 (RPS6KA3).
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Isotype:</b>	IgG
<b>Production Method:</b>	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.
<b>Amount:</b>	25 $\mu$ g
<b>Antibody Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 0.05% Thimerosal
<b>Storage Conditions:</b>	For long term storage, keep frozen at $-40^{\circ}\text{C}$ or lower. Stock solution can be kept at $+4^{\circ}\text{C}$ for more than 3 months. Avoid repeated freeze-thaw cycles.
<b>Storage Stability:</b>	$>2$ years

## Applications

<b>Product Use:</b>	Western blotting   Antibody microarray
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human   Chimpanzee   Rhesus macaque   Dog   Rat   Mouse   Chicken   Frog   Zebra fish   Fruit fly

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