

AB-PN644

PPAR γ -1-pS112 Antibody

Phosphosite-specific rabbit polyclonal antibody for PPAR γ -1. This phosphoserine-site antibody is highly specific for phosphoserine in the phosphosite.

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Target Protein

Protein Name Long:	Peroxisome proliferator-activated receptor gamma
Protein Alias:	Nuclear receptor subfamily 1 group C member 3
UniProt ID:	P37231
Protein Molecular Mass:	57,620 Da (505 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PPAR γ -1
Antibody Immunogen Sequence:	C(β A)EPA(pS)PPYY
Antibody Immunogen Description:	Corresponds to amino acid residues E109 to Y116. S112 phosphorylation inhibits transcriptional activity by inhibiting both ligand-independent and ligand-dependent transactivation functions of peroxisome proliferator-activated receptor gamma and targets PPARG to the ubiquitin-proteasome system to regulate cell growth and differentiation. This is a major site of <i>in vivo</i> phosphorylation of PPAR-gamma (≥ 7 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). PPAR γ -1 is known to be phosphorylated at this site <i>in vitro</i> by CDK5, CDK9, ERK1 (MAPK3), ERK2 (MAPK1), and JNK1 (MAPK8).
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 Rhesus macaque Dog Rat Mouse

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