

AB-PN612

Jun-pS73 Antibody

Phosphosite-specific rabbit polyclonal antibody for Jun (c-Jun). This phosphoserine-site antibody also weakly cross-reacts with a phosphotyrosine substitution in the phosphosite.

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Target Protein

Protein Name Long:	Jun proto-oncogene-encoded AP1 transcription factor
Protein Alias:	Activator protein 1; AH119; AP1; AP-1; c-Jun; Jun A; Jun oncogene; P39; Proto-oncogene c-jun; RJG-9; V-jun avian sarcoma virus 17 oncogene homolog
UniProt ID:	P05412
Protein Molecular Mass:	35,676 Da (331 AA; P05412)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human Jun
Antibody Immunogen Sequence:	CLKLA(pS)PELE
Antibody Immunogen Description:	Corresponds to amino acid residues L69 to E77. S73 phosphorylation stimulates transcriptional activity and binding to PIN1, although it has been reported to decrease binding to DNA and JNK1. This is the major <i>in vivo</i> phosphorylation site in c-Jun (≥ 78 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). Jun is known to be phosphorylated at this site <i>in vitro</i> by CDK1 (CDC2), CDK3, CK2a1 (CSNK2A1), ERK1 (MAPK3), ERK2 (MAPK1), ERK7 (MAPK15), JNK1 (MAPK8), JNK2 (MAPK9), JNK3 (MAPK10), PBK (TOPK), Pik3 (CNK), and VRK1.
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 multipепptide 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 Rhesus macaque Dog Rat Mouse Chicken Frog Zebra fish

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