

AB-PN581

Elk1-pS324 Antibody

Phosphosite-specific rabbit polyclonal antibody for Elk1. This phospho-serine-site antibody also cross-reacts with phosphothreonine and serine substitutions and weakly with a glutamic acid substitution in the phosphosite.

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Target Protein

Protein Name Long:	ETS domain-containing protein Elk-1
Protein Alias:	ELK1; ELK1, member of ETS oncogene family; ETS-domain protein Elk-1; ETS-domain protein ELK-1
UniProt ID:	P19419
Protein Molecular Mass:	44,888 Da (428 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human Elk1
Antibody Immunogen Sequence:	ELPL(pS)PSLLGC
Antibody Immunogen Description:	Corresponds to amino acid residues E320 to G329. S324 phosphorylation stimulates transcriptional activity by MAD2L2 and potentiates ternary complex formation. This is the major <i>in vivo</i> phosphorylation site in Elk-1 (≥ 20 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). Elk1 is known to be phosphorylated at this site <i>in vitro</i> by ERK1 (MAPK3), ERK2 (MAPK1), and JNK2 (MAPK9).
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 $+4^{\circ}\text{C}$ 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 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