

AB-PN851

SP4-pS770 Antibody

Phosphosite-specific rabbit polyclonal antibody for SP4. This phosphoserine-site antibody also weakly cross-reacts with a phosphothreonine substitution in the phosphosite.

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Target Protein

Protein Name Long:	Transcription factor Sp4
Protein Alias:	SPR-1
UniProt ID:	Q02446
Protein Molecular Mass:	81,985 Da (784 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human SP4
Antibody Immunogen Sequence:	SQD(pS)NPAC
Antibody Immunogen Description:	Corresponds to amino acid residues S767 to A773. The effect of S770 phosphorylation is unclear. This is a minor site of <i>in vivo</i> phosphorylation of SOD1 (≥5 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus).
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 µg
Antibody Concentration:	0.85 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 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