

AB-PN667

STAT1-pS727 Antibody

Phosphosite-specific rabbit polyclonal antibody for STAT1. This phosphoserine-site antibody also cross-reacts with phosphothreonine, serine and glutamic acid substitutions in the phosphosite.

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Target Protein

Protein Name Long:	Signal transducer and activator of transcription 1-alpha/beta
Protein Alias:	ISGF-3; Signal transducer and activator of transcription 1; Signal transducer and activator of transcription 1, 91kDa; STAT91; Transcription factor ISGF-3 components p91/p84
UniProt ID:	P42224
Protein Molecular Mass:	87,335 Da (750 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human STAT1
Antibody Immunogen Sequence:	LLPM(pS)PEE(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues L723 to E730. S727 phosphorylation regulates cell cycle, cell differentiation, cell growth, transcription, alters intracellular location, molecular association, induces interaction with DNA, PIAS1, STAT2, and inhibits interaction with DNA. This is the major site of <i>in vivo</i> phosphorylation of STAT1 (≥121 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). STAT1 is known to be phosphorylated at this site <i>in vitro</i> by CaMK2a, CaMK2g, CDK8, CK2a1 (CSNK2A1), ERK1 (MAPK3), ERK2 (MAPK1), JNK1 (MAPK8), p38a MAPK (MAPK14), p38b MAPK (MAPK11), and PKCd (PRKCD).
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 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.
Amount:	25 µg
Antibody Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerosal
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 Dog Rat Mouse Chicken 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