

AB-PN669

STAT3-pS727 Antibody

Phosphosite-specific rabbit polyclonal antibody for STAT3. This phosphoserine-site antibody is highly specific for phosphoserine in the phosphosite.

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Target Protein

Protein Name Long:	Signal transducer and activator of transcription 3
Protein Alias:	Acute-phase response factor; APRF
UniProt ID:	P40763
Protein Molecular Mass:	88,068 Da (770 AA; P40763-1); 87,981 Da (769 AA; P40763-2); 83,126 Da (722 AA; P40763-3)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human STAT3
Antibody Immunogen Sequence:	DLPM(pS)PRT(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues D723 to T730. S727 phosphorylation stimulates transcriptional activity and induces interaction with DNA, p300, and inhibits interaction with gp130. Phosphorylation regulates carcinogenesis, cell differentiation, cell growth, cell motility, and transcription. This is a major site of <i>in vivo</i> phosphorylation of STAT3 (≥122 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). STAT3 is known to be phosphorylated at this site <i>in vitro</i> by CDK1 (CDC2), CDK5, DYRK1A, DYRK2, ERK1 (MAPK3), ERK2 (MAPK1), HIPK2, IRAK1, JNK1 (MAPK8), JNK2 (MAPK9), MAPKAPK2, MEKK1 (MAP3K1), MSK1 (RPS6KA5), mTOR (FRAP1), NLK, p38a MAPK (MAPK14), PKCd (PRKCD), PKCe (PRKCE), RSK2 (RPS6KA3), and TBK1 (NAK).
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
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Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Chimpanzee Dog Rat Mouse Chicken 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