

AB-PN672

STAT5A-pS780 Antibody

Phosphosite-specific rabbit polyclonal antibody for STAT5A. This phosphoserine-site antibody also cross-reacts with phosphothreonine and glutamic acid substitutions and weakly with a phosphotyrosine substitution in the phosphosite.

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Target Protein

Protein Name Long:	Signal transducer and activator of transcription 5A
Protein Alias:	Mammary gland factor; MGF; MPF; STA5A; STAT5
UniProt ID:	P42229
Protein Molecular Mass:	90,647 Da (794 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human STAT5A
Antibody Immunogen Sequence:	DSRL(pS)PPAGC
Antibody Immunogen Description:	Corresponds to amino acid residues D776 to G784. S780 phosphorylation regulates molecular association, including inhibiting interaction with ERK1. This is a minor site of <i>in vivo</i> phosphorylation of STAT5A (≥25 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). STAT5A is known to be phosphorylated at this site <i>in vitro</i> by CDK8, ERK1 (MAPK3), ERK2 (MAPK1), and PAK1.
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 multipеп 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% 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 Chimpanzee Rhesus macaque 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