

AB-PN632

NFAT5-pT135 Antibody

Phosphosite-specific rabbit polyclonal antibody for NFAT5. This phosphothreonine-site antibody also cross-reacts with a glutamic acid substitution in the phosphosite.

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Target Protein

Protein Name Long:	Nuclear factor of activated T-cells 5
Protein Alias:	KIAA0827; NF-AT5; NFATL1; NFATZ; nuclear factor of activated T cells 5; nuclear factor of activated T-cells 5, tonicity-responsive; OREBP; T cell transcription factor NFAT5; TonE-binding protein; TonEBP; tonicity-responsive enhancer-binding protein
UniProt ID:	O94916
Protein Molecular Mass:	165,763 Da (1,531 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human NFAT5
Antibody Immunogen Sequence:	QHPS(pT)PKRH(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues Q131 to H139. T135 phosphorylation increases nuclear localization and induces transcriptional activity. This is one of the major <i>in vivo</i> phosphorylation sites in NFAT5 (≥ 14 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). NFAT5 is known to be phosphorylated at this site <i>in vitro</i> by CDK5.
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 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 Chimpanzee Rhesus Macaque Rat Mouse Platypus

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