

AB-PN630

NFAT1-pS217+pS221 Antibody

Phosphosite-specific rabbit polyclonal antibody for NFAT1



KINEXUS

Website: www.kinexus.ca

Email: info@kinexus.ca

Phone: 604-323-2547

Address: 8755 Ash Street, Suite 1

Vancouver, British Columbia,

Canada V6P 6T3

Target Protein

Protein Name Long:	Nuclear factor of activated T-cells, cytoplasmic 2
Protein Alias:	NFAC2; NFAT pre-existing subunit; NFAT1; NFATP; NF-ATp; Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2; T cell transcription factor NFAT1; T-cell transcription factor NFAT1
UniProt ID:	Q13469
Protein Molecular Mass:	100,146 Da (925 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human NFAT1
Antibody Immunogen Sequence:	C(βA)PRT(pS)PIM(pS)PRT
Antibody Immunogen Description:	Corresponds to amino acid residues P214 to T224. The effects of S217 and S221 phosphorylation are unclear. These are two of the major <i>in vivo</i> phosphorylation sites in NFAT1 (≥13 and ≥14 reports, respectively, from high throughput mass spectrometry studies recorded in PhosphoSitePlus). NFAT1 is known to be phosphorylated at this site <i>in vitro</i> by S217 and S221 by JNK1 (MAPK8).
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:	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 Rat Mouse Platypus Chicken

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