

AB-PN631

NFAT3-pS213+pS217 Antibody

Phosphosite-specific rabbit polyclonal antibody for NFAT3 (NFATc4)



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Target Protein

Protein Name Long:	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4
Protein Alias:	Nuclear factor of activated T-cells, cytoplasmic 4: T-cell transcription factor NFAT3: Nuclear factor of activated T-cells, cytoplasmic 4: T-cell transcription factor NFAT3
UniProt ID:	Q14934
Protein Molecular Mass:	95,449 Da (902 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human NFAT3
Antibody Immunogen Sequence:	CGLG(pS)PLPS(pS)PRA
Antibody Immunogen Description:	Corresponds to amino acid residues G210 to A220. S213 and S217 phosphorylation stimulates transcriptional activity. These are two of the major <i>in vivo</i> phosphorylation sites in NFAT3 (≥ 12 and ≥ 16 reports, respectively, from high throughput mass spectrometry studies recorded in PhosphoSitePlus). NFAT3 is known to be phosphorylated at this site <i>in vitro</i> by S213 and S217 by JNK1 (MAPK8), and JNK2 (MAPK9).
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 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°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 Dog Rat Mouse Chicken Frog 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