

AB-PN596

FOXO3-pT32 Antibody

Phosphosite-specific rabbit polyclonal antibody for FOXO3 (FKHRL1). This phosphothreonine-site antibody is highly specific for phosphothreonine in the phosphosite.

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Target Protein

Protein Name Long:	Forkhead box protein O3
Protein Alias:	AF6q21; AF6q21 protein; Fkhr2; Fkhr1; Forkhead box O3; Forkhead box O3A; Forkhead in rhabdomyosarcoma-like 1; FOXO2; Foxo3; Foxo3a
UniProt ID:	O43524
Protein Molecular Mass:	71,277 Da (673 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human FOXO3
Antibody Immunogen Sequence:	PRSA(pT)WPLC
Antibody Immunogen Description:	Corresponds to amino acid residues P28 to L35. T32 phosphorylation inhibits transcriptional activity and induces 14-3-3-beta binding and nuclear exclusion. This is one of the major <i>in vivo</i> phosphorylation sites in FOXO3 (≥ 97 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). FOXO3 is known to be phosphorylated at this site <i>in vitro</i> by Akt1 (PKBa), Akt2 (PKBb), Pim1, and SGK1.
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°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 Rhesus Macaque Rat Mouse 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