

AB-PN821

FOXO3-pS253 Antibody

Phosphosite-specific rabbit polyclonal antibody for FOXO3 (FKHRL1). This phosphoserine-site antibody also cross-reacts with phosphothreonine, phosphotyrosine, and serine substitutions in the phosphosite.

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:	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:	RAV(pS)MDNSC
Antibody Immunogen Description:	Corresponds to amino acid residues R250 to S256. S253 phosphorylation inhibits activity, although there is one report of activation, and induced interaction with 14-3-3-beta, 14-3-3-epsilon and 14-3-3-zeta. This is one of the major <i>in vivo</i> phosphosites with ≥ 93 mass spectrometry reports recorded in PhosphoSitePlus. FOXO3 is known to be phosphorylated at this site <i>in vitro</i> by Akt1 (PKBa).
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:	0.9 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 Dog 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