

AB-PN590

FOXK1-pS441+pS445 Antibody

Phosphosite-specific rabbit polyclonal antibody for FOXK1

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Target Protein

Protein Name Long:	Forkhead box protein K1
Protein Alias:	MNF; Myocyte nuclear factor
UniProt ID:	P85037
Protein Molecular Mass:	75,457 Da (733 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human FOXK1
Antibody Immunogen Sequence:	CL(pS)REG(pS)PIP
Antibody Immunogen Description:	Corresponds to amino acid residues C439 to P448. The effects of S441 and S445 phosphorylation are unclear. These are two of the major <i>in vivo</i> phosphorylation sites in FOXK1 with ≥ 183 and ≥ 219 mass spectrometry reports, respectively, recorded in PhosphoSitePlus.
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 multi-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% Thimerosal
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 μ g/ml for immunoblotting
Antibody Species Reactivity:	Human Dog Rat Mouse Cow Frog Sea urchin

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