

AB-PN591

FOXK2-pS424+pS428 Antibody

Phosphosite-specific rabbit polyclonal antibody for FOXK2



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Target Protein

Protein Name Long:	Forkhead box protein K2
Protein Alias:	Cellular transcription factor ILF-1; Forkhead box K2; ILF; ILF1; ILF-1; Interleukin enhancer-binding 1; Interleukin enhancer-binding factor 1
UniProt ID:	Q01167
Protein Molecular Mass:	69,062 Da (660 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human FOXK2
Antibody Immunogen Sequence:	FAQ(pS)APG(pS)PLS(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues F421 to S431. The effects of S424 phosphorylation are unclear. S428 phosphorylation regulates transcription and apoptosis, and stabilizes FOXK2. These are two of the major <i>in vivo</i> phosphorylation sites in FOXK2 based on ≥ 29 and ≥ 47 high throughput mass spectrometry reports, respectively, recorded in PhosphoSitePlus. FOXK2 is known to be phosphorylated <i>in vitro</i> at S424 by ERK1 (MAPK3).
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 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