

AB-PN593

FOXO1-pS256 Antibody

Phosphosite-specific rabbit polyclonal antibody for FOXO1A (FKHR; FKHL1)

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 O1
Protein Alias:	FKH1; FKHR; Forkhead box O1; Forkhead box O1A (FKHR); Forkhead box protein O1A; Forkhead in rhabdomyosarcoma; FOXO1
UniProt ID:	Q12778
Protein Molecular Mass:	69,662 Da (655 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human FOXO1
Antibody Immunogen Sequence:	RAA(pS)MDNNSC
Antibody Immunogen Description:	Corresponds to amino acid residues R253 to S261. S256 phosphorylation inhibits transcription by preventing nuclear import, regulates protein degradation and molecular association; phosphorylation induces interaction with 14-3-3 beta, SKP2, and inhibits interaction with DNA. This is one of the major <i>in vivo</i> phosphorylation sites in FOXO1A (≥55 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). FOXO1A is known to be phosphorylated at this site <i>in vitro</i> by Akt1 (PKBa), and Akt3 (PKBg).
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 µg
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 Rhesus macaque Dog Rat Mouse Platypus 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