

AB-PK916

STLK3-pT231 Antibody

Phosphosite-specific rabbit polyclonal antibody for STLK3 (DCHT). This phosphothreonine-site antibody is highly specific for phosphothreonine in the phosphosite.

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Target Protein

Protein Name Long:	STE20-SPS1-related proline-alanine rich protein kinase
Protein Alias:	DCHT; EC 2.7.11.1; Serine threonine kinase 39; Serine/threonine-protein kinase 39; SPAK; Ste-20 related kinase; STE20/SPS1-related proline-alanine rich protein kinase
UniProt ID:	Q9UEW8
Protein Molecular Mass:	59,642 Da (547 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human STLK3
Antibody Immunogen Sequence:	VRK(pT)FVGC
Antibody Immunogen Description:	Corresponds to amino acid residues V228 to G234. T231 phosphorylation stimulates phosphotransferase activity. This phosphosite is located in the kinase activation loop between catalytic subdomains VII and VIII. This is a major site of <i>in vivo</i> phosphorylation based on ≥ 55 mass spectrometry reports recorded in PhosphoSitePlus. STLK3 is known to be phosphorylated at this site <i>in vitro</i> by STLK3, and Wnk1 (PRKWNK1).
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:	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 $+4^{\circ}\text{C}$ 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 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Chimpanzee Rat Mouse Platypus Chicken Fruit fly Honey bee 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