

AB-PK814

SIK3-pT163 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase SIK3 (QSK)



KINEXUS

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Target Protein

Name Long:	Salt-inducible serine/threonine-protein kinase SIK3
Alias:	FLJ12240; KIAA0999; L19; Salt-inducible kinase 3; Serine/threonine-protein kinase QSK; SIK family kinase 3; SIK3; SIK-3; L19; KIAA0999; ENSG00000160584
UniProt ID:	Q9Y2K2
Sequence Predicted Mass (KDa):	139.980 (1263 AA; Q9Y2K2); 133.715 (1203 AA; Q9Y2K2-4); 125.475 (1129 AA; Q9Y2K2-3); 65.097 (598 AA; Q9Y2K2-2)
Observed SDS-PAGE Mass (KDa):	110-115

Immunogen

Antibody Immunogen Source:	Human SIK3 (QSK) sequence peptide Cat. No.: PE-04APF99
Antibody Immunogen Sequence:	LLK(pT)WCG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues L160 to G166; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-163

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipep 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 each animal 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. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	150305
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	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.

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Applications

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium immunoreactivity of target-sized protein in maturing sea star oocytes.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Almost no significant cross-reactivities detected in Jurkat cells.

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 www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)