

AB-PK652

GUK1-pY53 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase GUK1



KINEXUS

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Target Protein

Name Long:	Guanylate kinase
Alias:	GMK; GMP kinase; Guanylate kinase 1; KGUA
UniProt ID:	Q16774
Sequence Predicted Mass (kDa):	26.596 (241 AA; Q16774-3); 23.782 (218 AA; Q16774-2); 21.726 (197 AA; Q16774)
Observed SDS-PAGE Mass (kDa):	23-28

Immunogen

Antibody Immunogen Source:	Human GUK1 sequence peptide Cat. No.: PE-04AMT99
Antibody Immunogen Sequence:	GKD(pY)YFV(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues G50 to V56; In the first third of the Guanylate_kin domain. Is the major in vivo site of phosphorylation of GUK1.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-53

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 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 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% Thimerazol
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 vertebrates; Phosphosite is highly conserved in diverse species
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium immunoreactivity of a target-sized protein by Western blotting in MCF7 cells and sea star oocytes.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	Strong ~220, 50 and 35 KDa immuno-reactive proteins were detected in sea star oocytes; a ~47 KDa cross-reactive proteins in HepG2 and MCF7 cells; and a strong 40 KDa cross-reactive protein in MCF7 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)