

AB-PK646

GCK-pS170 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase GCK (MAP4K2)



KINEXUS

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Target Protein

Name Long:	Germinal centre protein-serine kinase; Mitogen-activated protein kinase kinase kinase 2
Alias:	B lymphocyte serine/threonine-protein kinase; BL44; GCK; Germinal center kinase; Kinase GCK; M4K2; MAP4K2; MAPK/ERK kinase kinase kinase 2; RAB8IP; CCDS8082.1; Q12851; ENSG00000168067
UniProt ID:	Q12851
Sequence Predicted Mass (KDa):	91.556 (820 AA; Q12851-1); 90.809 (812 AA; Q12851-2)
Observed SDS-PAGE Mass (KDa):	85-95

Immunogen

Antibody Immunogen Source:	Human GCK (MAP4K2) sequence peptide Cat. No.: PE-04AMQ99
Antibody Immunogen Sequence:	KRR(pS)FIG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues K167 to G173; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-170

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.
Overall Antibody Specificity:	Very high selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in Jurkat and 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)