

AB-PK671

KHS1-pS174 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase KHS1 (MAP4K5; KHS)



KINEXUS

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Target Protein

Name Long:	Kinase homologous to SPS1/STE20 (MAP kinase kinase kinase protein-serine kinase 5 (MEKKK5))
Alias:	GCKR; Germinal center kinase-related; Germinal center kinase-related enzyme; KHS; Kinase KHS1; M4K5; MAP4K5; MAPKKKK5; Q9Y4K4; ENSG00000012983
UniProt ID:	Q9Y4K4
Sequence Predicted Mass (KDa):	95.040 (846 AA; Q9Y4K4)
Observed SDS-PAGE Mass (KDa):	85-100

Immunogen

Antibody Immunogen Source:	Human KHS1 (MAP4K5; KHS) sequence peptide Cat. No.: PE-04AND99
Antibody Immunogen Sequence:	KRK(pS)FIG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues K171 to G177; 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-174

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% 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:	Weak immunoreactivity of a target-sized protein by Western blotting in sea star oocytes.
Overall Antibody Specificity:	Medium selectivity
Antibody Cross Reactivities:	Many cross-reactive proteins detected in sea star oocytes, including a strongly immunoreactive 150 KDa protein.

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)