

AB-PK653

HGK-pT187 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase HGK (ZC1)



KINEXUS

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Target Protein

Name Long:	Mitogen-activated protein kinase kinase kinase kinase 4
Alias:	FLH21957; Hepatocyte progenitor kinase-like/germinal center kinase-like kinase; HGK; HPK/GCK-like kinase HGK; M4K4; MAP4K4; MAPK kinase kinase kinase 4; MAPK/ERK kinase kinase kinase 4; MEK kinase kinase 4; MEKKK 4; MEKKK4; Mitogen-activated protein kinase kinase kinase kinase 4; Nck interacting kinase; NIK; FLJ10410; FLJ20373; FLJ90111; KIAA0687; NIK; O95819; ENSG0000007105
UniProt ID:	O95819
Sequence Predicted Mass (KDa):	150.913 (1319 AA; O95819-3); 142.101 (1239 AA; O95819); 141.929 (1242 AA; O95819-5); 138.418 (1211 AA; O95819-2); 133.401 (1165 AA; O95819-4)
Observed SDS-PAGE Mass (KDa):	135-150

Immunogen

Antibody Immunogen Source:	Human HGK (ZC1) sequence peptide Cat. No.: PE-04ALN99
Antibody Immunogen Sequence:	RRN(pT)FIG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues R184 to G190; 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:	Thr-187

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 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 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:	141202
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 serum-starved Jurkat cells treated with insulin for 5 minutes.
Overall Antibody Specificity:	High-very high selectivity

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)