

Human HGK Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF6027

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human HGK in Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human HGK Ser686-Val820 Accession # 095819-4	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

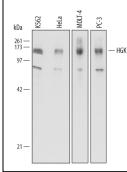
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA

Western Blot



Detection of Human HGK by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line, HeLa human cervical epithelial carcinoma cell line, MOLT-4 human acute lymphoblastic leukemia cell line, MOLT-4 human acute lymphoblastic leukemia cell line, and PC-3 human prostate cancer cell line. PVDF Membrane was probed with 1 µg/mL of Goat Anti-Human HGK Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6027) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for HGK at approximately 140 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

HGK (<u>H</u>epatocyte kinase-like/<u>G</u>erminal center like-kinase <u>K</u>inase; also MAP4K4) is a 140 kDa member of the MSN subfamily, MAP4K family of molecules. It is ubiquitously expressed, and intimately associated with TNFα signaling. HGK is activated by TNF-induced c-Jun activation, and blocks both PPARγ expression and glucose-stimulated insulin secretion. Human HGK is 1239 amino acids (aa) in length (Accession # 095819) and contains one protein kinase domain (aa 25-289) and a CHN region (aa 926-1213). There are multiple splice variants. The antibody product offered by R&D Systems uses a 130 kDa, 1166 aa isoform as immunogen. It shows a deletion of aa 495-525 and 570-623, plus an eight aa insertion after His1112, and a GEV insertion after Ala740.

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