

DESCRIPTION

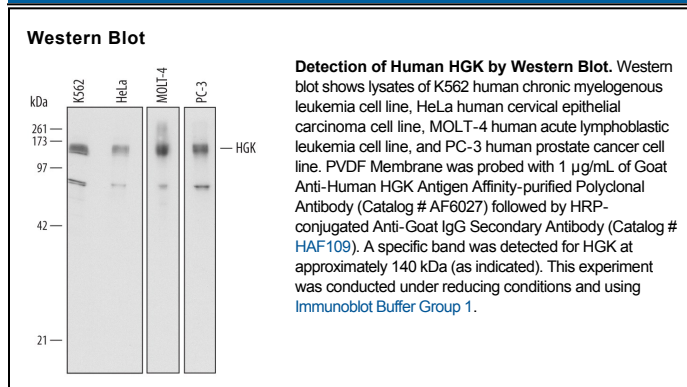
Species Reactivity	Human
Specificity	Detects human HGK in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human HGK Ser686-Val820 Accession # O95819-4
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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



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. <ul style="list-style-type: none"> • 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 (Hepatocyte kinase-like/Germinal center like-kinase Kinase; 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 # O95819) 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.