

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human HGK in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human HGK Ser686-Val820 Accession # O95819-4
<b>Conjugate</b>	Alexa Fluor Plus 680 Excitation Wavelength: 687 nm Emission Wavelength: 704 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

**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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

**DATA**

**PREPARATION AND STORAGE**

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

**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 TNF $\alpha$  signaling. HGK is activated by TNF-induced c-Jun activation, and blocks both PPAR $\gamma$  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.

**PRODUCT SPECIFIC NOTICES**

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