

#3485  
Store at -20C

## HGK Antibody

Update browser

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R Mk	Endogenous	150	Rabbit	#O95819	9448

Product Usage  
Information

## Application

Western Blotting  
Immunoprecipitation

## Dilution

1:1000  
1:50

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

## Specificity/Sensitivity

HGK Antibody detects endogenous levels of total HGK protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro556 of human HGK protein. Antibodies are purified by protein A and peptide affinity chromatography.

## Background

HGK (MAP4K4 or mitogen-activated protein kinase kinase kinase 4) is a serine/threonine kinase that belongs to the mammalian STE20/MAP4K kinase family involved in response to environmental stress and cytokines such as TNF-α (1-3). HGK specifically activates the c-Jun N-terminal kinase (JNK) signaling pathway and increases AP-1-mediated transcriptional activity *in vivo* (1). HGK is broadly expressed in many types of human cancer and cancer cell lines and plays an important role in cell transformation, invasiveness, adhesion and migration (4,5).

## Background References

1. Yao, Z. et al. (1999) *J Biol Chem* 274, 2118-25.
2. Tesz, G.J. et al. (2007) *J Biol Chem* 282, 19302-12.
3. Bouzakri, K. and Zierath, J.R. (2007) *J Biol Chem* 282, 7783-9.
4. Wright, J.H. et al. (2003) *Mol Cell Biol* 23, 2068-82.
5. Collins, C.S. et al. (2006) *Proc Natl Acad Sci USA* 103, 3775-80.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation

## Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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