

Store at -20C
#5146**HGK (D19H10) Rabbit mAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

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

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

HGK (D19H10) Rabbit mAb detects endogenous levels of total HGK protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala553 of human HGK protein.

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

Cross-Reactivity Key

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

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