

#5146 Store at -20C

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:
WB	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 <i>in vivo</i> (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	<ol style="list-style-type: none"> 1. Yao, Z. et al. (1999) <i>J Biol Chem</i> 274, 2118-25. 2. Tesz, G.J. et al. (2007) <i>J Biol Chem</i> 282, 19302-12. 3. Bouzakri, K. and Zierath, J.R. (2007) <i>J Biol Chem</i> 282, 7783-9. 4. Wright, J.H. et al. (2003) <i>Mol Cell Biol</i> 23, 2068-82. 5. Collins, C.S. et al. (2006) <i>Proc Natl Acad Sci USA</i> 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	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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