



# HGK Monoclonal Antibody

<b>Catalog No</b>	BYab-14156
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	MAP4K4
<b>Protein Name</b>	Mitogen-activated protein kinase kinase kinase kinase 4
<b>Immunogen</b>	Purified recombinant fragment of HGK (aa400-500) expressed in E. Coli.
<b>Specificity</b>	HGK Monoclonal Antibody detects endogenous levels of HGK protein.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	Affinity purification
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	MAP4K4; HGK; KIAA0687; NIK; Mitogen-activated protein kinase kinase kinase kinase 4; HPK/GCK-like kinase HGK; MAPK/ERK kinase kinase kinase 4; MEK kinase kinase 4; MEKKK 4; Nck-interacting kinase
<b>Observed Band</b>	
<b>Cell Pathway</b>	Cytoplasm .
<b>Tissue Specificity</b>	Widely expressed. Isoform 5 is abundant in the brain. Isoform 4 is predominant in the liver, skeletal muscle and placenta.
<b>Function</b>	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,function:Serine/threonine kinase that may play a role in the response to environmental stress and cytokines such as TNF-alpha. Appears to act upstream of the JUN N-terminal pathway.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.,similarity:Contains 1 CNH domain.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with the SH3 domain of the adapter proteins Nck (By similarity). Binds, via its CNH regulatory domain, to the N-terminal region of

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SPG3A.,tissue specificity:Appears to be ubiquitous, expressed in all tissue types examined. Isoform 5 appears to be more abundant in the brain, isoform 4 is predominant in the liver, skelet

**Background**

mitogen-activated protein kinase kinase kinase kinase 4(MAP4K4) Homo sapiens The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase has been shown to specifically activate MAPK8/JNK. The activation of MAPK8 by this kinase is found to be inhibited by the dominant-negative mutants of MAP3K7/TAK1, MAP2K4/MKK4, and MAP2K7/MKK7, which suggests that this kinase may function through the MAP3K7-MAP2K4-MAP2K7 kinase cascade, and mediate the TNF-alpha signaling pathway. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008],

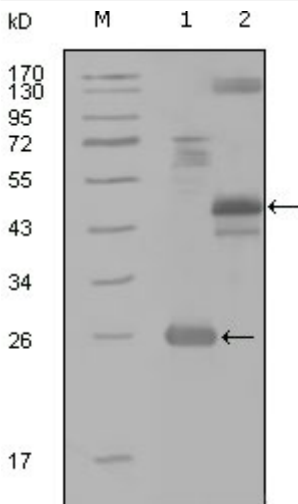
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**



Western Blot analysis using HGK Monoclonal Antibody against truncated Trx-HGK recombinant protein (1), MBP-HGK (aa300-400) recombinant protein (2) and HGK(aa194-436)-hIgGFc transfected CH0-K1 cell lysate(3).