

## HGK Monoclonal Antibody

<b>Catalog No :</b>	YM0331
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	HGK
<b>Fields :</b>	>>MAPK signaling pathway
<b>Gene Name :</b>	MAP4K4
<b>Protein Name :</b>	Mitogen-activated protein kinase kinase kinase 4
<b>Human Gene Id :</b>	9448
<b>Human Swiss Prot No :</b>	O95819
<b>Mouse Swiss Prot No :</b>	P97820
<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>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	142kD
<b>Cell Pathway :</b>	MAPK_ERK_Growth;MAPK_G_Protein;

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**P References :**

1. Mol Cell Biol. 2000 Mar;20(5):1537-45.
2. Curr Biol. 2002 Apr 16;12(8):622-31.
3. J Biol Chem. 2007 Mar 16;282(11):7783-9.

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**Background :** mitogen-activated protein 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],

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**Function :** 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 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

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**Subcellular Location :** Cytoplasm .

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**Expression :** Widely expressed. Isoform 5 is abundant in the brain. Isoform 4 is predominant in the liver, skeletal muscle and placenta.

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**Sort :** 7343

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**No4 :** 1

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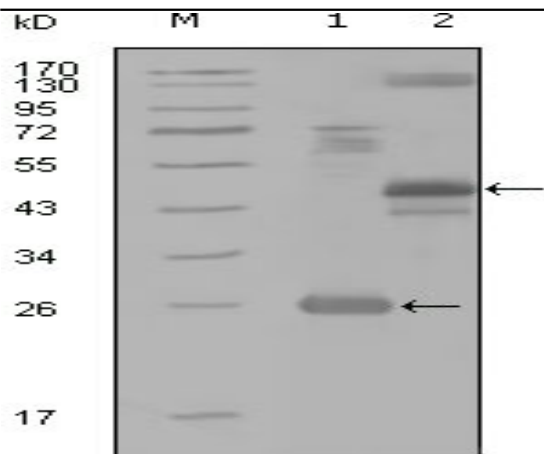
**Host :** Mouse

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**Modifications :** Unmodified

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**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 CHO-K1 cell lysate(3).