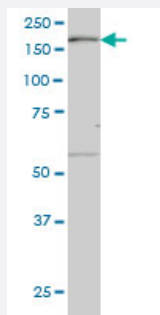


MAP3K4 monoclonal antibody (M08), clone 4F10

Catalog # H00004216-M08

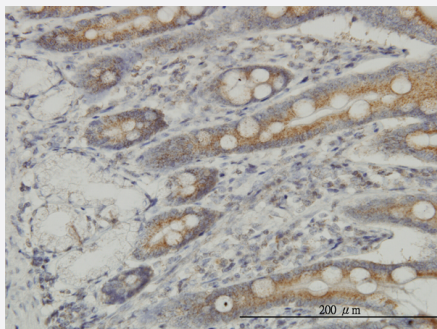
Size 100 ug

Applications



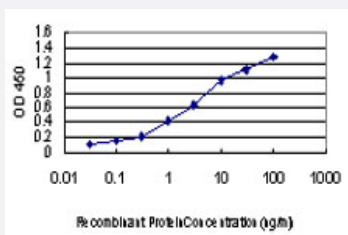
Western Blot (Cell lysate)

MAP3K4 monoclonal antibody (M08), clone 4F10 Western Blot analysis of MAP3K4 expression in NIH/3T3 (Cat # L018V1).



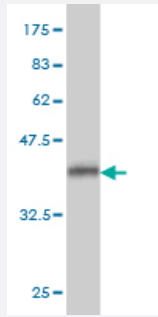
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to MAP3K4 on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 1 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged MAP3K4 is approximately 0.1ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant MAP3K4.
Immunogen	MAP3K4 (NP_005913, 1201 a.a. ~ 1300 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	AASRPSPSGGDSVLPKSISSAHDTRGSSVPENDRLASIAAELQFRSLSRHSSPTEERDEPAYPR GDSSGSTRRSWELRTLISQSKDTASKLGPIEAIQKS
Host	Mouse
Reactivity	Human, Mouse
Interspecies Antigen Sequence	Mouse (88); Rat (95)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

MAP3K4 monoclonal antibody (M08), clone 4F10 Western Blot analysis of MAP3K4 expression in NIH/3T3 (Cat # L018V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to MAP3K4 on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 1 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged MAP3K4 is approximately 0.1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — MAP3K4

Entrez GeneID	4216
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GeneBank Accession#	NM_005922
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Protein Accession#	NP_005913
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Gene Name	MAP3K4
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Gene Alias	FLJ42439, KIAA0213, MAPKKK4, MEKK4, MTK1, PRO0412
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Gene Description	mitogen-activated protein kinase kinase kinase 4
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Omim ID	602425
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Gene Ontology	Hyperlink
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Gene Summary

The central core of each mitogen-activated protein kinase (MAPK) pathway is a conserved cascade of 3 protein kinases: an activated MAPK kinase kinase (MAPKKK) phosphorylates and activates a specific MAPK kinase (MAPKK), which then activates a specific MAPK. While the ERK MAPKs are activated by mitogenic stimulation, the CSBP2 and JNK MAPKs are activated by environmental stresses such as osmotic shock, UV irradiation, wound stress, and inflammatory factors. This gene encodes a MAPKKK, the MEKK4 protein, also called MTK1. This protein contains a protein kinase catalytic domain at the C terminus. The N-terminal nonkinase domain may contain a regulatory domain. Expression of MEKK4 in mammalian cells activated the CSBP2 and JNK MAPK pathways, but not the ERK pathway. In vitro kinase studies indicated that recombinant MEKK4 can specifically phosphorylate and activate PRKMK6 and SERK1, MAPKKs that activate CSBP2 and JNK, respectively but cannot phosphorylate PRKMK1, an MAPKK that activates ERKs. MEKK4 is a major mediator of environmental stresses that activate the CSBP2 MAPK pathway, and a minor mediator of the JNK pathway. Two alternatively spliced transcripts encoding distinct isoforms have been described. [provided by RefSeq]

Other Designations

MAP/ERK kinase kinase 4|MAPK/ERK kinase kinase 4|SSK2/SSK22 MAP kinase kinase kinase, yeast, homolog of [dJ473J16.1 (mitogen-activated protein kinase kinase kinase 4)]|predicted protein of HQ0412

Pathway

- [GnRH signaling pathway](#)
- [MAPK signaling pathway](#)

Disease

- [Tobacco Use Disorder](#)