



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## MAP3K4 monoclonal antibody (M06), clone 6A12

Catalog # : H00004216-M06

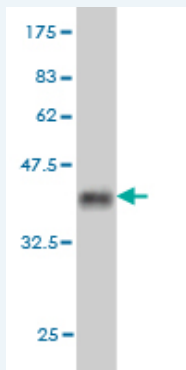
規格 : [ 100 ug ]

[List All](#)

### Specification

<b>Product Description:</b>	Mouse monoclonal antibody raised against a partial recombinant MAP3K4.
<b>Immunogen:</b>	MAP3K4 (NP_005913, 1201 a.a. ~ 1300 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Sequence:</b>	AASRPSPSGGDSVLPKSISSAHDTRGSSVPENDRLASIAAELQFRSLSRH SSPTEERDEPAYPRGDSSGSTRRSWELRTLISQSKDTASKLGPIEAIQKS
<b>Host:</b>	Mouse
<b>Reactivity:</b>	Human
<b>Isotype:</b>	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.

**MSDS:** [Download](#)

**Datasheet:** [Download](#)

### Applications

**Western Blot (Recombinant protein)**

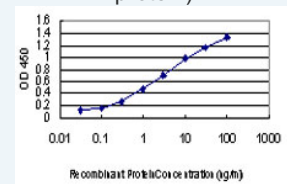
[Protocol Download](#)

**Sandwich ELISA (Recombinant protein)**

### Application Image

Western Blot (Recombinant protein)

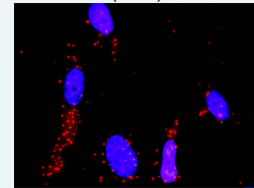
Sandwich ELISA (Recombinant protein)



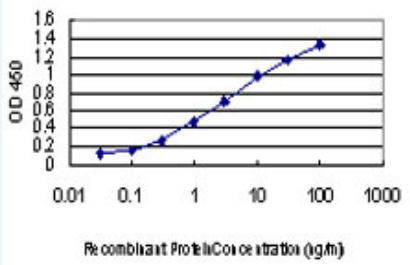
[enlarge](#)

ELISA

*In situ* Proximity Ligation Assay (Cell)



[enlarge](#)

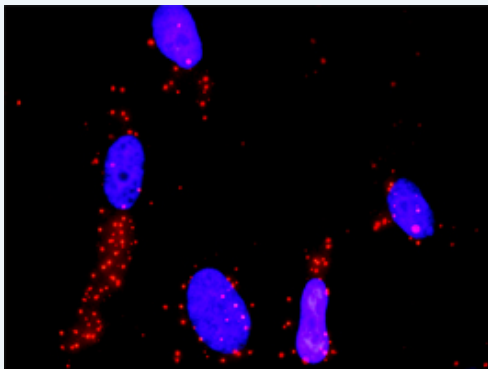


Detection limit for recombinant GST tagged MAP3K4 is approximately 0.1 ng/ml as a capture antibody.

 [Protocol Download](#)

## ELISA

### *In situ* Proximity Ligation Assay (Cell)



Proximity Ligation Analysis of protein-protein interactions between MAP2K3 and MAP3K4. HeLa cells were stained with anti-MAP2K3 rabbit purified polyclonal 1:1200 and anti-MAP3K4 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

## Gene Information

Entrez GeneID: [4216](#)

GeneBank [NM\\_005922](#)  
Accession#:

Protein [NP\\_005913](#)  
Accession#:

Gene Name: MAP3K4

Gene Alias: FLJ42439, KIAA0213, MAPKKK4, MEKK4, MTK1, PRO0412

Gene Description: mitogen-activated protein kinase kinase kinase 4

Omim ID: [602425](#)

Gene Ontology: [Hyperlink](#)

**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

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**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

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#### Gene Pathway

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

#### Related Disease

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[Tobacco Use Disorder](#)

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