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- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## MAPK13 & MAP3K4 Protein Protein Interaction Antibody Pair

Catalog # : DI0493

規格 : [ 1 Set ]

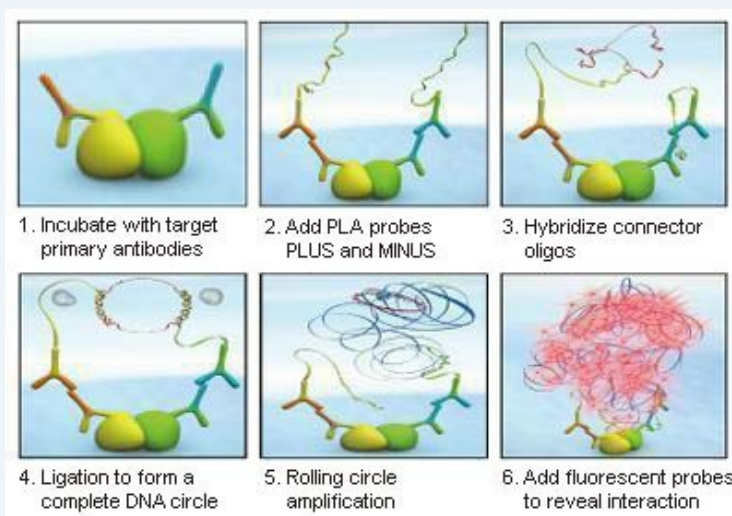
List All

### Specification

**Product Description:** This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the MAPK13 protein, and the other against the MAP3K4 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

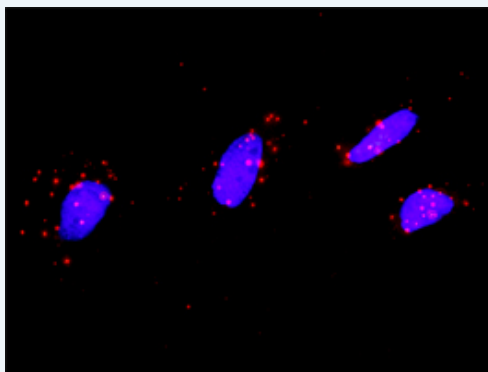
### Application Image

*In situ* Proximity Ligation Assay (Cell)



**Reactivity:** Human

**Quality Control Testing:** Protein protein interaction immunofluorescence result.



Representative image of Proximity Ligation Assay of protein-protein interactions between MAPK13 and MAP3K4. HeLa cells were stained with anti-MAPK13 rabbit purified polyclonal antibody 1:1200 and anti-MAP3K4 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware ([BlobFinder](#)) download from The Centre for Image Analysis at Uppsala University.

**Supplied Product:** Antibody pair set content:  
 1. MAPK13 rabbit purified polyclonal antibody (20 ug)  
 2. MAP3K4 mouse monoclonal antibody (40 ug)  
 \*Reagents are sufficient for at least 30-50 assays using recommended protocols.

**Storage Instruction:** Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -

20°C storage immediately after use.

MSDS:

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## Publication Reference

1. [An analysis of protein-protein interactions in cross-talk pathways reveals CRKL as a novel prognostic marker in hepatocellular carcinoma.](#)  
Liu CH, Chen TC, Chau GY, Jan YH, Chen CH, Hsu CN, Lin KT, Juang YL, Lu PJ, Cheng HC, Chen MH, Chang CF, Ting YS, Kao CY, Hsiao M, Huang CY. Mol Cell Proteomics. 2013 Feb 8. [Epub ahead of print]

## Applications

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

[MAP3K4](#) [MAPK13](#)

## Gene Information

Entrez GeneID: [5603](#)

Gene Name: MAPK13

Gene Alias: MGC99536,PRKM13,SAPK4,p38delta

Gene Description: mitogen-activated protein kinase 13

Omim ID: [602899](#)

Gene Ontology: [Hyperlink](#)

**Gene Summary:** The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is closely related to p38 MAP kinase, both of which can be activated by proinflammatory cytokines and cellular stress. MAP kinase kinases 3, and 6 can phosphorylate and activate this kinase. Transcription factor ATF2, and microtubule dynamics regulator stathmin have been shown to be the substrates of this kinase. [provided by RefSeq]

Other Designations: OTTHUMP00000016282,mitogen-activated protein kinase p38 delta,stress-activated protein kinase 4

## Gene Information

Entrez GeneID: [4216](#)

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** MAP/ERK kinase kinase 4,MAPK/ERK kinase kinase 4,SSK2/SSK22  
**Designations:** MAP kinase kinase kinase, yeast, homolog of,dJ473J16.1 (mitogen-activated protein kinase kinase kinase 4),predicted protein of HQ0412

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