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## CDC42 & MAP3K4 Protein Protein Interaction Antibody Pair

Catalog # : DI0616

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 CDC42 protein, and the other against the MAP3K4 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

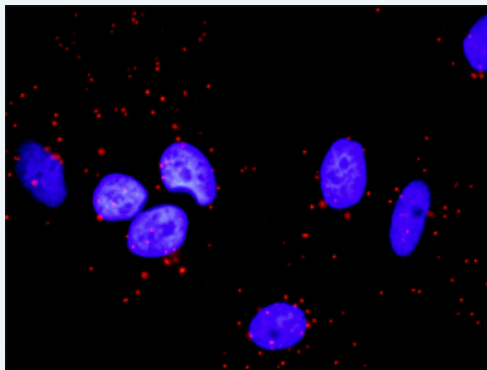
### Application Image

*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 CDC42 and MAP3K4. HeLa cells were stained with anti-CDC42 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. CDC42 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)

[CDC42](#) [MAP3K4](#)

## Gene Information

Entrez GeneID: [998](#)

Gene Name: CDC42

Gene Alias: CDC42Hs,G25K

Gene Description: cell division cycle 42 (GTP binding protein, 25kDa)

Omim ID: [116952](#)

Gene Ontology: [Hyperlink](#)

**Gene Summary:** The protein encoded by this gene is a small GTPase of the Rho-subfamily, which regulates signaling pathways that control diverse cellular functions including cell morphology, migration, endocytosis and cell cycle progression. This protein is highly similar to *Saccharomyces cerevisiae* Cdc 42, and is able to complement the yeast *cdc42-1* mutant. The product of oncogene *Dbl* was reported to specifically catalyze the dissociation of GDP from this protein. This protein could regulate actin polymerization through its direct binding to Neural Wiskott-Aldrich syndrome protein (N-WASP), which subsequently activates Arp2/3 complex. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq]

**Other Designations:** GTP-binding protein, 25kD,OTTHUMP00000002834,OTTHUMP00000002926,cell division cycle 42,cell division cycle 42 (GTP binding protein, 25kD),cell division cycle 42 (GTP-binding protein, 25kD),dJ224A6.1.1 (cell division cycle 42 (GTP-binding protein, 25kD)),d

## 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]

**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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