MAP2K6 & MAP3K4 Protein Protein Interaction Antibody Pair

Catalog # DI0492 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between MAP2K6 and MAP3K4. HeLa cells were stained with anti-MAP2K6 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.

Specification	
Product Description	This protein protein interaction antibody pair set comes with two antibodies to detect the protein-prot ein interaction, one against the MAP2K6 protein, and the other against the MAP3K4 protein for use i n <i>in situ</i> Proximity Ligation Assay. See Publication Reference below.
Reactivity	Human
Quality Control Testing	Protein protein interaction immunofluorescence result. Representative image of Proximity Ligation Assay of protein-protein interactions between MAP2K6 and MAP3K4. HeLa cells were stained with anti-MAP2K6 rabbit purified polyclonal antibody 1:1200 and anti-MAP3K4 mouse monoclonal antibody 1:50. Each red dot represents the detection of protei n-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. MAP2K6 rabbit purified polyclonal antibody (100 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 tha w cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

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• In situ Proximity Ligation Assay (Cell)

Gene Info — MAP3K4		
Entrez GenelD	<u>4216</u>	
Gene Name	MAP3K4	
Gene Alias	FLJ42439, KIAA0213, MAPKKK4, MEKK4, MTK1, PRO0412	
Gene Description	mitogen-activated protein kinase kinase kinase 4	
Omim ID	<u>602425</u>	
Gene Ontology	<u>Hyperlink</u>	
Gene Summary	The central core of each mitogen-activated protein kinase (MAPK) pathway is a conserved casca de of 3 protein kinases: an activated MAPK kinase kinase (MAPKKK) phosphorylates and activat es a specific MAPK kinase (MAPKK), which then activates a specific MAPK. While the ERK MA PKs are activated by mitogenic stimulation, the CSBP2 and JNK MAPKs are activated by enviro nmental 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 pr otein kinase catalytic domain at the C terminus. The N-terminal nonkinase domain may contain a r egulatory 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. MEK K4 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 isofor ms have been described. [provided by RefSeq	
Other Designations	MAP/ERK kinase kinase 4 MAPK/ERK kinase kinase 4 SSK2/SSK22 MAP kinase kinase kinas e, yeast, homolog of dJ473J16.1 (mitogen-activated protein kinase kinase kinase 4) predicted pr otein of HQ0412	

Gene Info — MAP2K6		
Entrez GenelD	<u>5608</u>	
Gene Name	MAP2K6	
Gene Alias	MAPKK6, MEK6, MKK6, PRKMK6, SAPKK3	
Gene Description	mitogen-activated protein kinase kinase 6	

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Product Information

Omim ID	<u>601254</u>
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the dual specificity protein kinase family, which functions as a mi togen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-re gulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein phosphorylates and activates p38 MAP kinase in response to inflammatory cytokines or environm ental stress. As an essential component of p38 MAP kinase mediated signal transduction pathwa y, this gene is involved in many cellular processes such as stress induced cell cycle arrest, transcr iption activation and apoptosis. [provided by RefSeq
Other Designations	protein kinase, mitogen-activated, kinase 6 (MAP kinase kinase 6)

Pathway

- Amyotrophic lateral sclerosis (ALS)
- Fc epsilon RI signaling pathway
- GnRH signaling pathway
- GnRH signaling pathway
- MAPK signaling pathway
- MAPK signaling pathway
- Toll-like receptor signaling pathway

Disease

- <u>Cardiovascular Diseases</u>
- Diabetes Mellitus
- Edema
- Huntington disease
- Tobacco Use Disorder