MAP3K7 & MAP3K7IP1 Protein Protein Interaction Antibody Pair

Catalog # DI0496 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between MAP3K7 and MAP3K7IP1. HeLa cells were stained with anti-MAP3K7 rabbit purified polyclonal antibody 1:1200 and anti-MAP3K7IP1 mouse monoclonal antibody 1:50. Each red dot represents the detection of proteinprotein 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 MAP3K7 protein, and the other against the MAP3K7IP1 protein for u se in <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 MAP3K7 and MAP3K7IP1. HeLa cells were stained with anti-MAP3K7 rabbit purified polyclonal antibody 1:12 00 and anti-MAP3K7IP1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFi nder) download from The Centre for Image Analysis at Uppsala University.
Supplied Product	Antibody pair set content: 1. MAP3K7 rabbit purified polyclonal antibody (100 ug) 2. MAP3K7IP1 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 — MAP3K7		
Entrez GenelD	<u>6885</u>	
Gene Name	MAP3K7	
Gene Alias	TAK1, TGF1a	
Gene Description	mitogen-activated protein kinase kinase kinase 7	
Omim ID	<u>602614</u>	
Gene Ontology	Hyperlink	
Gene Summary	The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase mediates the signaling transduction induced by TGF beta and morphogenetic protein (BM P), and controls a variety of cell functions including transcription regulation and apoptosis. In resp onse to IL-1, this protein forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3 K7P2/TAB2; this complex is required for the activation of nuclear factor kappa B. This kinase can also activate MAPK8/JNK, MAP2K4/MKK4, and thus plays a role in the cell response to environm ental stresses. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq	
Other Designations	OTTHUMP00000016870 OTTHUMP00000016871 OTTHUMP00000016872 OTTHUMP000000 16873 TGF-beta activated kinase 1 transforming growth factor-beta-activated kinase 1	

Gene Info — MAP3K7IP1		
Entrez GenelD	<u>10454</u>	
Gene Name	MAP3K7IP1	
Gene Alias	3'-Tab1, MGC57664, TAB1	
Gene Description	mitogen-activated protein kinase kinase kinase 7 interacting protein 1	
Omim ID	<u>602615</u>	
Gene Ontology	Hyperlink	

🐨 Abnova	Product Information
Gene Summary	The protein encoded by this gene was identified as a regulator of the MAP kinase kinase kinase MAP3K7/TAK1, which is known to mediate various intracellular signaling pathways, such as thos e induced by TGF beta, interleukin 1, and WNT-1. This protein interacts and thus activates TAK1 kinase. It has been shown that the C-terminal portion of this protein is sufficient for binding and act ivation of TAK1, while a portion of the N-terminus acts as a dominant-negative inhibitor of TGF be ta, suggesting that this protein may function as a mediator between TGF beta receptors and TAK 1. This protein can also interact with and activate the mitogen-activated protein kinase 14 (MAPK 14/p38alpha), and thus represents an alternative activation pathway, in addition to the MAPKK pa thways, which contributes to the biological responses of MAPK14 to various stimuli. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq
Other Designations	TAK1-binding protein 1 transforming growth factor beta-activated kinase-binding protein 1

Pathway

- Adherens junction
- <u>MAPK signaling pathway</u>
- <u>MAPK signaling pathway</u>
- <u>T cell receptor signaling pathway</u>
- Toll-like receptor signaling pathway
- <u>Toll-like receptor signaling pathway</u>
- <u>Wnt signaling pathway</u>

Disease

- Arthritis
- Arthritis
- Crohn Disease
- <u>Crohn Disease</u>
- Genetic Predisposition to Disease
- Inflammatory Bowel Diseases
- Narcolepsy
- Tobacco Use Disorder