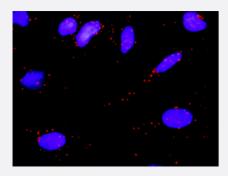
CDC42 & MAPK9 Protein Protein Interaction Antibody Pair

Catalog # DI0608 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between CDC42 and MAPK9. HeLa cells were stained with anti-CDC42 rabbit purified polyclonal antibody 1:1200 and anti-MAPK9 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-protein interaction, one against the CDC42 protein, and the other against the MAPK9 protein for use in <u>i</u> <u>n situ</u> 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 CDC42 a nd MAPK9. HeLa cells were stained with anti-CDC42 rabbit purified polyclonal antibody 1:1200 and anti-MAPK9 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-prot ein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) downl oad from The Centre for Image Analysis at Uppsala University.
Supplied Product	Antibody pair set content: 1. CDC42 rabbit purified polyclonal antibody (100 ug) 2. MAPK9 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 that 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 — CDC42		
Entrez GenelD	<u>998</u>	
Gene Name	CDC42	
Gene Alias	CDC42Hs, G25K	
Gene Description	cell division cycle 42 (GTP binding protein, 25kDa)	
Omim ID	<u>116952</u>	
Gene Ontology	Hyperlink	
Gene Summary	The protein encoded by this gene is a small GTPase of the Rho-subfamily, which regulates signali ng pathways that control diverse cellular functions including cell morphology, migration, endocytosi s and cell cycle progression. This protein is highly similar to Saccharomyces cerevisiae Cdc 42, a nd 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 po lymerization through its direct binding to Neural Wiskott-Aldrich syndrome protein (N-WASP), whi ch subsequently activates Arp2/3 complex. Alternative splicing of this gene results in multiple tran script variants. [provided by RefSeq	
Other Designations	GTP-binding protein, 25kD OTTHUMP0000002834 OTTHUMP0000002926 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 Info — MAPK9		
Entrez GenelD	<u>5601</u>	
Gene Name	MAPK9	
Gene Alias	JNK-55, JNK2, JNK2A, JNK2ALPHA, JNK2B, JNK2BETA, PRKM9, SAPK, p54a, p54aSAPK	
Gene Description	mitogen-activated protein kinase 9	
Omim ID	<u>602896</u>	
Gene Ontology	Hyperlink	

😭 Abnova	Product Information
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 pro cesses such as proliferation, differentiation, transcription regulation and development. This kinase targets specific transcription factors, and thus mediates immediate-early gene expression in resp onse to various cell stimuli. It is most closely related to MAPK8, both of which are involved in UV r adiation induced apoptosis, thought to be related to the cytochrome c-mediated cell death pathwa y. This gene and MAPK8 are also known as c-Jun N-terminal kinases. This kinase blocks the ubiq uitination of tumor suppressor p53, and thus it increases the stability of p53 in nonstressed cells. Studies of this gene's mouse counterpart suggest a key role in T-cell differentiation. Several altern atively spliced transcript variants encoding distinct isoforms have been reported. [provided by Ref Seq
Other Designations	Jun kinase MAP kinase 9 c-Jun N-terminal kinase 2 c-Jun kinase 2 mitogen-activated protein kina se 9 isoform JNK2 alpha2 stress-activated protein kinase JNK2

Pathway

- Adherens junction
- Adipocytokine signaling pathway
- Axon guidance
- <u>Chemokine signaling pathway</u>
- Colorectal cancer
- Endocytosis
- Epithelial cell signaling in Helicobacter pylori infection
- Epithelial cell signaling in Helicobacter pylori infection
- ErbB signaling pathway
- <u>Fc epsilon RI signaling pathway</u>
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Focal adhesion
- GnRH signaling pathway
- GnRH signaling pathway
- Insulin signaling pathway

Leukocyte transendothelial migration

- MAPK signaling pathway
- <u>MAPK signaling pathway</u>
- <u>Neurotrophin signaling pathway</u>
- <u>Neurotrophin signaling pathway</u>
- Pancreatic cancer
- Pancreatic cancer
- Pathogenic Escherichia coli infection EHEC
- Pathways in cancer
- Pathways in cancer
- <u>Regulation of actin cytoskeleton</u>
- Renal cell carcinoma
- <u>T cell receptor signaling pathway</u>
- <u>T cell receptor signaling pathway</u>
- Tight junction
- <u>Toll-like receptor signaling pathway</u>
- Type II diabetes mellitus
- VEGF signaling pathway
- Wnt signaling pathway

Disease

- Breast cancer
- Breast Neoplasms
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Hepatitis B

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- HIV Infections
- HIV Infections
- <u>Multiple Sclerosis</u>
- Parkinson disease
- Tobacco Use Disorder