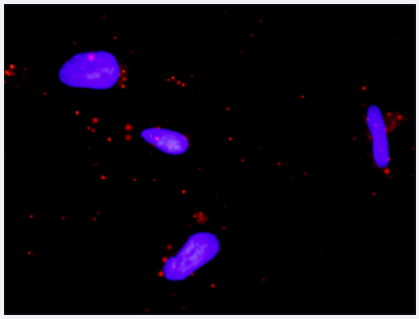
NFATC4 & MAPK14 Protein Protein Interaction Antibody Pair

Catalog # DI0594 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between NFATC4 and MAPK14. HeLa cells were stained with anti-NFATC4 rabbit purified polyclonal antibody 1:1200 and anti-MAPK14 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 NFATC4 protein, and the other against the MAPK14 protein for use in *in situ* 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 NFATC4 and MAPK14. HeLa cells were stained with anti-NFATC4 rabbit purified polyclonal antibody 1:1200 and anti-MAPK14 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 Products	Antibody pair set content: 1. NFATC4 rabbit purified polyclonal antibody (100 ug) 2. MAPK14 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.

Applications

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- *In situ* Proximity Ligation Assay (Cell)

Gene Info — MAPK14

Entrez GeneID	1432
Gene Name	MAPK14
Gene Alias	CSBP1, CSBP2, CSPB1, EXIP, Mxi2, PRKM14, PRKM15, RK, SAPK2A, p38, p38ALPHA
Gene Description	mitogen-activated protein kinase 14
Omim ID	600289
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 pro cesses such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requ ires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by t he interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppres sor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulat ion, as well as in genotoxic stress response. Four alternatively spliced transcript variants of this g ene encoding distinct isoforms have been reported. [provided by RefSeq
Other Designations	Csaids binding protein|MAP kinase Mxi2|MAX-interacting protein 2|cytokine suppressive anti-infl ammatory drug binding protein|p38 MAP kinase|p38 mitogen activated protein kinase|p38alpha Exip|stress-activated protein kinase 2A

Gene Info — NFATC4

Entrez GeneID	4776
Gene Name	NFATC4
Gene Alias	NF-ATc4, NFAT3
Gene Description	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4
Omim ID	602699
Gene Ontology	Hyperlink

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Gene Summary	The product of this gene is a member of the nuclear factors of activated T cells DNA-binding trans cription complex. This complex consists of at least two components: a preexisting cytosolic comp onent that translocates to the nucleus upon T cell receptor (TCR) stimulation and an inducible nucl ear component. Other members of this family of nuclear factors of activated T cells also participat e in the formation of this complex. The product of this gene plays a role in the inducible expression of cytokine genes in T cells, especially in the induction of the IL-2 and IL-4. Alternatively spliced tra nscript variants encoding different isoforms have been noted for this gene. [provided by RefSeq
Other Designations	T cell transcription factor NFAT3|nuclear factor of activated T-cells, cytoplasmic 4

Pathway

- Amyotrophic lateral sclerosis (ALS)
- Axon guidance
- B cell receptor signaling pathway
- Epithelial cell signaling in Helicobacter pylori infection
- Fc epsilon RI signaling pathway
- GnRH signaling pathway
- Leukocyte transendothelial migration
- MAPK signaling pathway
- MAPK signaling pathway
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- T cell receptor signaling pathway
- T cell receptor signaling pathway
- Toll-like receptor signaling pathway
- VEGF signaling pathway
- VEGF signaling pathway
- Wnt signaling pathway

Disease

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- Cardiomegaly
- Cardiovascular Diseases
- Cardiovascular Diseases
- Diabetes Mellitus
- Diabetes Mellitus
- Disease Models
- Edema
- Edema
- Genetic Predisposition to Disease
- HIV Infections
- Kidney Failure
- Narcolepsy
- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome
- Puberty
- Schizophrenia
- Thrombophilia
- Tobacco Use Disorder

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