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NFATC4 & MAPK14 Protein Protein Interaction Antibody Pair

Catalog # : DI0594

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 NFATC4 protein, and the other against the MAPK14 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

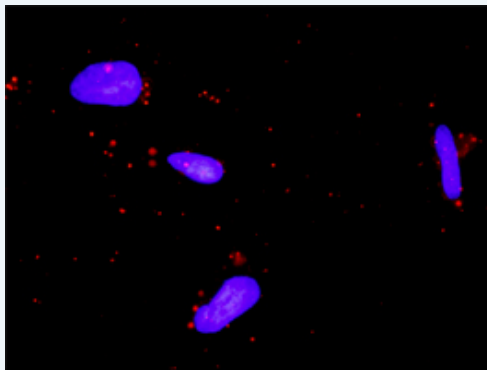
Application Image

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 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 Product: Antibody pair set content:
 1. NFATC4 rabbit purified polyclonal antibody (20 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.

MSDS:

 [Download](#)

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)

[MAPK14](#) [NFATC4](#)

Gene Information

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](#)

Gene Summary: The product of this gene is a member of the nuclear factors of activated T cells DNA-binding transcription complex. This complex consists of at least two components: a preexisting cytosolic component that translocates to the nucleus upon T cell receptor (TCR) stimulation and an inducible nuclear component. Other members of this family of nuclear factors of activated T cells also participate 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 transcript 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

Gene Information

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](#)

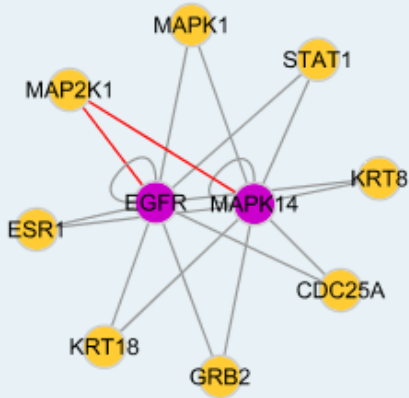
Gene Ontology: [Hyperlink](#)

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 processes such as

proliferation, differentiation, transcription regulation and development. This kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the 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 suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq]

Other Designations: Csaids binding protein,MAP kinase Mxi2,MAX-interacting protein 2,cytokine suppressive anti-inflammatory drug binding protein,p38 MAP kinase,p38 mitogen activated protein kinase,p38alpha Exp,stress-activated protein kinase 2A

Interactome



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