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- Expressversand

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MAP3K3 & PRKACA Protein Protein Interaction Antibody Pair

Catalog # : DI0552

規格 : [1 Set]

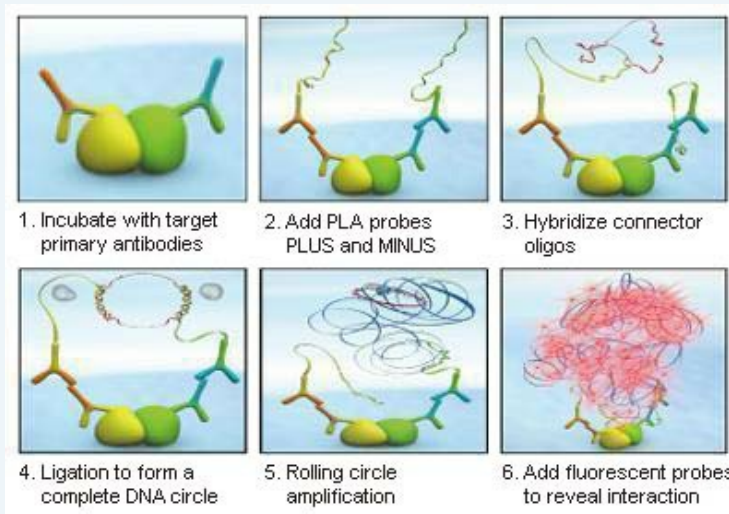
List All

Specification

Product Description: This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the MAP3K3 protein, and the other against the PRKACA protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

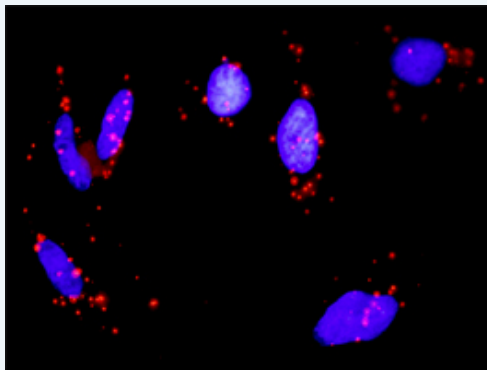
Application Image

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 MAP3K3 and PRKACA. HeLa cells were stained with anti-MAP3K3 rabbit purified polyclonal antibody 1:1200 and anti-PRKACA 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. MAP3K3 rabbit purified polyclonal antibody (20 ug)
 2. PRKACA 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)

[MAP3K3](#) [PRKACA](#)

Gene Information

Entrez GeneID: [4215](#)

Gene Name: MAP3K3

Gene Alias: MAPKKK3,MEKK3

Gene Description: mitogen-activated protein kinase kinase kinase 3

Omim ID: [602539](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene product is a 626-amino acid polypeptide that is 96.5% identical to mouse Mekk3. Its catalytic domain is closely related to those of several other kinases, including mouse Mekk2, tobacco NPK, and yeast Ste11. Northern blot analysis revealed a 4.6-kb transcript that appears to be ubiquitously expressed. This protein directly regulates the stress-activated protein kinase (SAPK) and extracellular signal-regulated protein kinase (ERK) pathways by activating SEK and MEK1/2 respectively; it does not regulate the p38 pathway. In cotransfection assays, it enhanced transcription from a nuclear factor kappa-B (NFkB)-dependent reporter gene, consistent with a role in the SAPK pathway. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq]

Other Designations: MAP/ERK kinase kinase 3,MAPK/ERK kinase kinase 3

Gene Information

Entrez GeneID: [5566](#)

Gene Name: PRKACA

Gene Alias: MGC102831,MGC48865,PKACA

Gene Description: protein kinase, cAMP-dependent, catalytic, alpha

Omim ID: [601639](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent

protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is a member of the Ser/Thr protein kinase family and is a catalytic subunit of cAMP-dependent protein kinase. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq

Other PKA C-alpha,cAMP-dependent protein kinase catalytic subunit
Designations: alpha,cAMP-dependent protein kinase catalytic subunit alpha, isoform 1,protein kinase A catalytic subunit

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