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- Trockeneiszuschlag
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- Expressversand

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MAPK12 & DUSP1 Protein Protein Interaction Antibody Pair

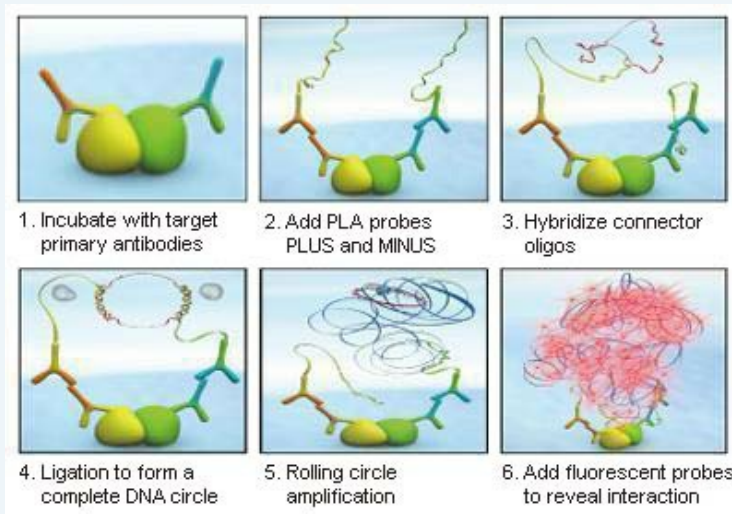
Catalog # : DI0486

規格 : [1 Set]

List All

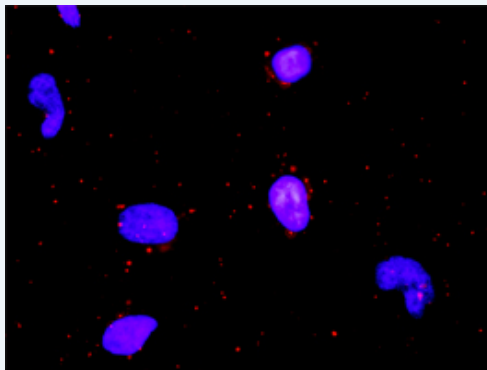
Specification

Product Description: This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the MAPK12 protein, and the other against the DUSP1 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 MAPK12 and DUSP1. HeLa cells were stained with anti-MAPK12 rabbit purified polyclonal antibody 1:1200 and anti-DUSP1 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. MAPK12 rabbit purified polyclonal antibody (20 ug)
 2. DUSP1 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 -

Application Image

In situ Proximity Ligation Assay (Cell)

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)

[DUSP1](#) [MAPK12](#)

Gene Information

Entrez GeneID: [6300](#)

Gene Name: MAPK12

Gene Alias: ERK3,ERK6,P38GAMMA,PRKM12,SAPK-3,SAPK3

Gene Description: mitogen-activated protein kinase 12

Omim ID: [602399](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: Activation of members of the mitogen-activated protein kinase family is a major mechanism for transduction of extracellular signals. Stress-activated protein kinases are one subclass of MAP kinases. The protein encoded by this gene functions as a signal transducer during differentiation of myoblasts to myotubes. [provided by RefSeq]

Other Designations: mitogen-activated protein kinase 3, stress-activated protein kinase 3

Gene Information

Entrez GeneID: [1843](#)

Gene Name: DUSP1

Gene Alias: CL100,HVH1,MKP-1,MKP1,PTPN10

Gene Description: dual specificity phosphatase 1

Omim ID: [600714](#)

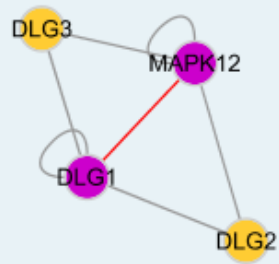
Gene Ontology: [Hyperlink](#)

Gene Summary: The expression of DUSP1 gene is induced in human skin fibroblasts by oxidative/heat stress and growth factors. It specifies a protein with structural features similar to members of the non-receptor-type protein-tyrosine phosphatase family, and which has significant amino-acid sequence similarity to a Tyr/Ser-protein phosphatase encoded by the late gene H1 of vaccinia virus. The bacterially expressed and purified DUSP1 protein has intrinsic phosphatase activity, and specifically inactivates mitogen-activated protein (MAP) kinase in vitro by the concomitant dephosphorylation of both its phosphothreonine and

phosphotyrosine residues. Furthermore, it suppresses the activation of MAP kinase by oncogenic ras in extracts of *Xenopus* oocytes. Thus, DUSP1 may play an important role in the human cellular response to environmental stress as well as in the negative regulation of cellular proliferation. [provided by RefSeq]

Other Designations: serine/threonine specific protein phosphatase

Interactome



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