



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## MAPK14 & EGFR Protein Protein Interaction Antibody Pair

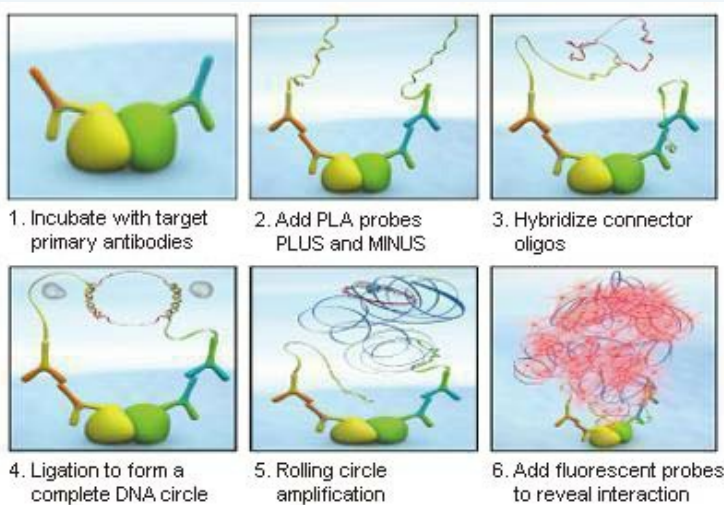
Catalog # : DI0027

規格 : [ 1 Set ]

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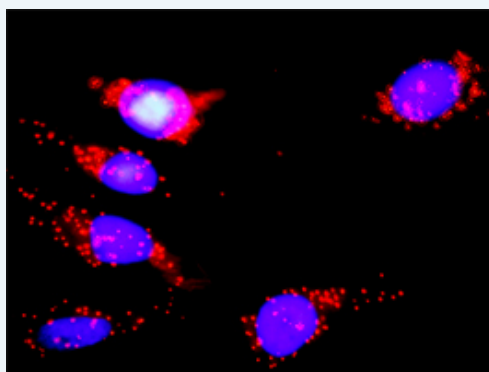
### Specification

**Product Description:** This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the MAPK14 protein, and the other against the EGFR protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.



**Reactivity:** Human

**Quality Control Testing:** Protein protein interaction immunofluorescence result.



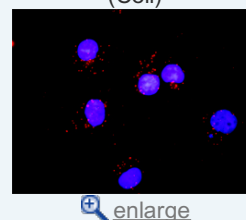
Representative image of Proximity Ligation Assay of protein-protein interactions between MAPK14 and EGFR. HeLa cells were stained with anti-MAPK14 rabbit purified polyclonal antibody 1:1200 and anti-EGFR mouse purified polyclonal antibody 1:50. Each red dot represents the detection of protein-protein 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. MAPK14 rabbit purified polyclonal antibody (20 ug)  
 2. EGFR mouse purified polyclonal 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)



MSDS:

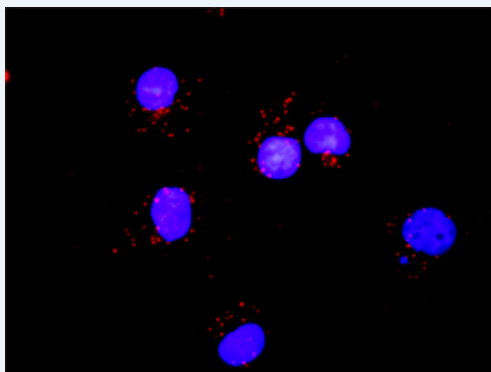


## Publication Reference

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)



Representative image of Proximity Ligation Assay of protein-protein interactions between MAPK14 and EGFR. Mahlavu cells were stained with anti-MAPK14 rabbit purified polyclonal antibody 1:1200 and anti-EGFR mouse purified polyclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

[MAPK14](#) [EGFR](#)

## 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 Csais binding protein, MAP kinase Mxi2, MAX-interacting protein

**Designations:** 2,cytokine suppressive anti-inflammatory drug binding protein,p38 MAP kinase,p38 mitogen activated protein kinase,p38alpha Exp,stress-activated protein kinase 2A

### Gene Information

**Entrez GeneID:** [1956](#)

**Gene Name:** EGFR

**Gene Alias:** ERBB,ERBB1,HER1,PIG61,mENA

**Gene Description:** epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)

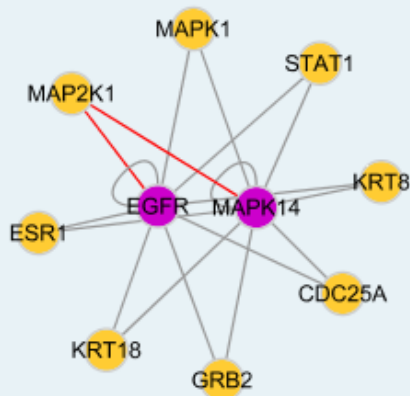
**Omim ID:** [131550](#), [211980](#)

**Gene Ontology:** [Hyperlink](#)

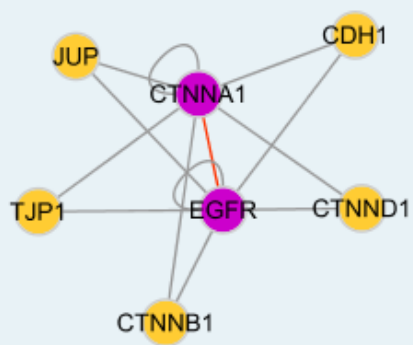
**Gene Summary:** The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. Mutations in this gene are associated with lung cancer. [provided by RefSeq]

**Other Designations:** avian erythroblastic leukemia viral (v-erb-b) oncogene homolog,cell growth inhibiting protein 40,cell proliferation-inducing protein 61,epidermal growth factor receptor

### Interactome 1



### Interactome 2



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