



# SZABO SCANDIC

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Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## CDK7 & E2F1 Protein Protein Interaction Antibody Pair

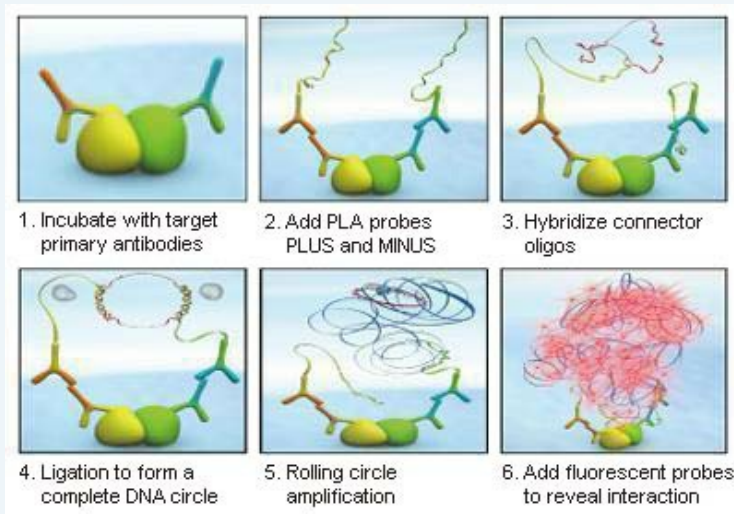
Catalog # : DI0016

規格 : [ 1 Set ]

List All

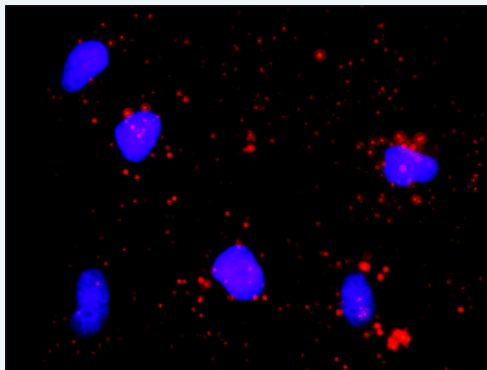
### Specification

**Product Description:** This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the CDK7 protein, and the other against the E2F1 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.



**Reactivity:** Human

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



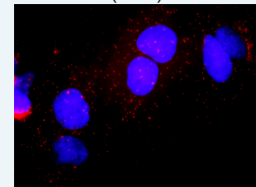
Representative image of Proximity Ligation Assay of protein-protein interactions between CDK7 and E2F1. HeLa cells were stained with anti-CDK7 rabbit purified polyclonal antibody 1:1200 and anti-E2F1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction 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. CDK7 rabbit purified polyclonal antibody (20 ug)  
 2. E2F1 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)



[enlarge](#)

20°C storage immediately after use.

MSDS:

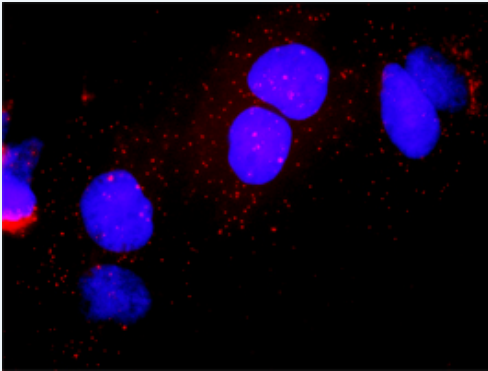
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## Publication Reference

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 CDK7 and E2F1. Huh7 cells were stained with anti-CDK7 rabbit purified polyclonal antibody 1:1200 and anti-E2F1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

[CDK7](#) [E2F1](#)

## Gene Information

Entrez GeneID: [1022](#)

Gene Name: CDK7

Gene Alias: CAK1,CDKN7,MO15,STK1,p39MO15

Gene Description: cyclin-dependent kinase 7

Omim ID: [601955](#)

Gene Ontology: [Hyperlink](#)

**Gene Summary:** The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of *Saccharomyces cerevisiae* *cdc28*, and *Schizosaccharomyces pombe* *cdc2*, and are known to be important regulators of cell cycle progression. This protein forms a trimeric complex with cyclin H and MAT1, which functions as a Cdk-activating kinase (CAK). It is an essential component of the transcription factor TFIIH, that is involved in transcription initiation and DNA repair. This protein is thought to serve as a direct link between the regulation of transcription and the cell cycle. [provided by RefSeq]

**Other Designations:** 39 KDa protein kinase,Cdk-activating kinase,cell division protein kinase 7,cyclin-dependent kinase 7 (MO15 homolog, *Xenopus laevis*, cdk-activating kinase),homolog of *Xenopus* MO15 Cdk-activating kinase,kinase subunit of CAK,serine/threonine kinase *stk1*,ser

## Gene Information

Entrez GeneID: [1869](#)

Gene Name: E2F1

Gene Alias: E2F-1, RBAP1, RBBP3, RBP3

Gene Description: E2F transcription factor 1

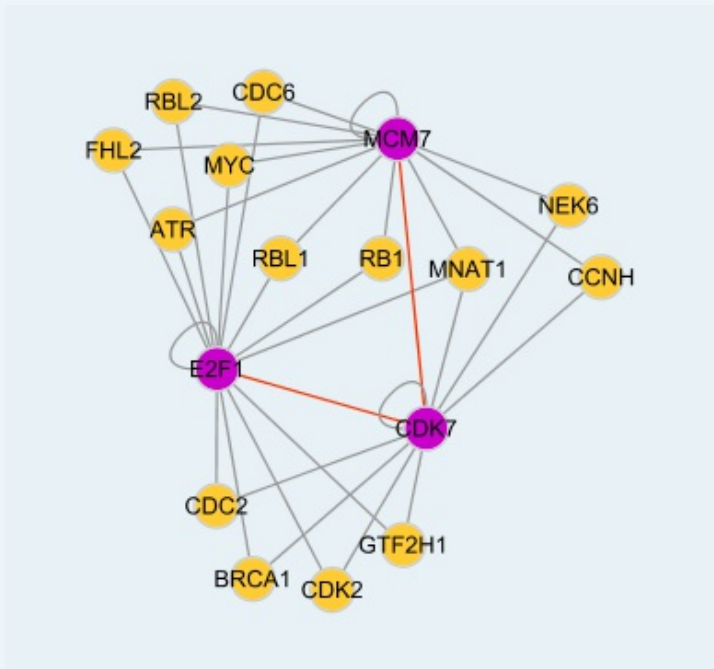
Omim ID: [189971](#)

Gene Ontology: [Hyperlink](#)

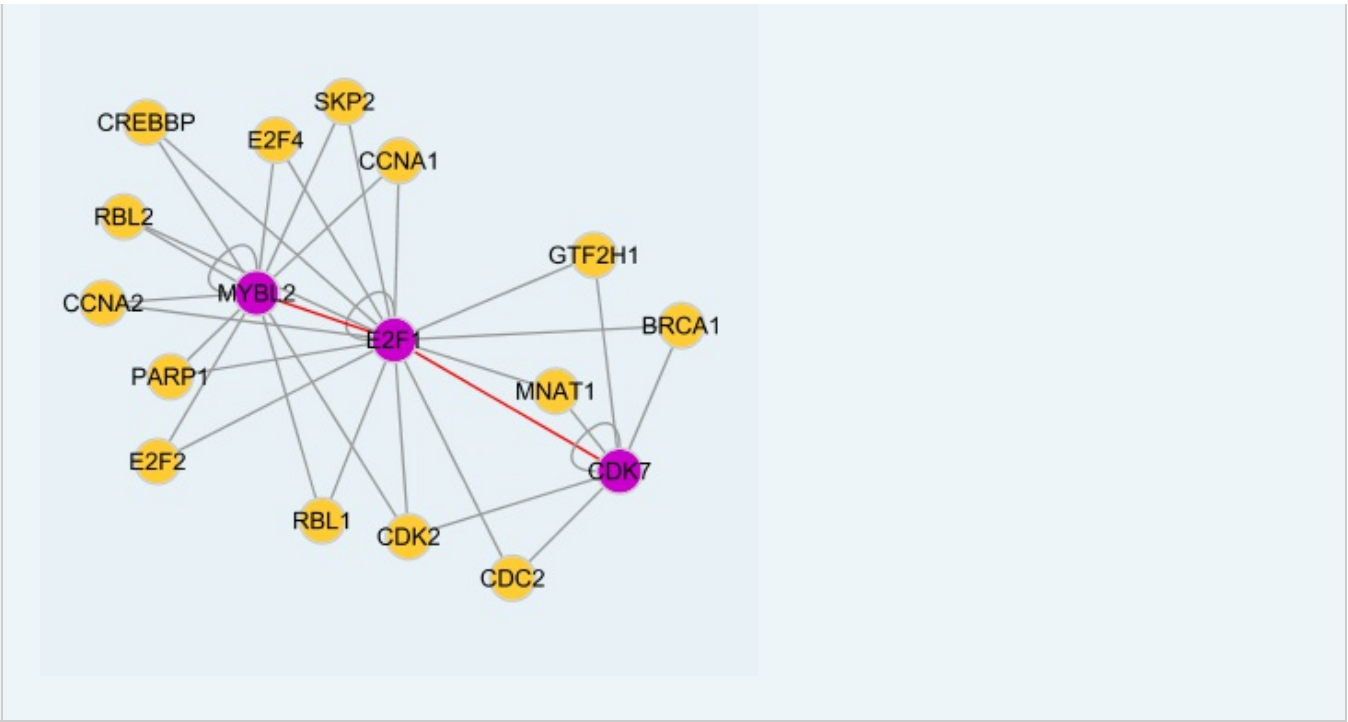
**Gene Summary:** The protein encoded by this gene is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins contain several evolutionally conserved domains found in most members of the family. These domains include a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein and another 2 members, E2F2 and E2F3, have an additional cyclin binding domain. This protein binds preferentially to retinoblastoma protein pRB in a cell-cycle dependent manner. It can mediate both cell proliferation and p53-dependent/independent apoptosis. [provided by RefSeq]

Other Designations: OTTHUMP00000030661, retinoblastoma-associated protein 1

## Interactome 1



## Interactome 2



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