



# SZABO SCANDIC

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## CDKN1A & SMAD4 Protein Protein Interaction Antibody Pair

Catalog # : DI0415

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 CDKN1A protein, and the other against the SMAD4 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

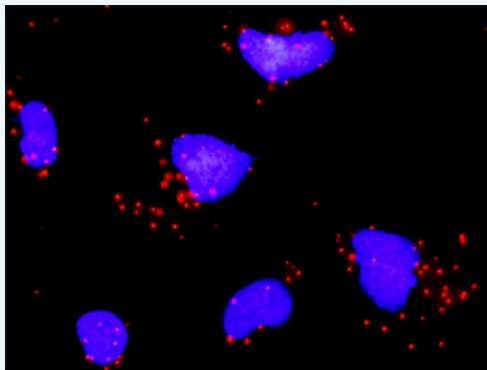
### Application Image

*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 CDKN1A and SMAD4. HeLa cells were stained with anti-CDKN1A rabbit purified polyclonal antibody 1:1200 and anti-SMAD4 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. CDKN1A rabbit purified polyclonal antibody (20 ug)  
 2. SMAD4 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)

[CDKN1A](#) [SMAD4](#)

## Gene Information

Entrez GeneID: [1026](#)

Gene Name: CDKN1A

Gene Alias: CAP20,CDKN1,CIP1,MDA-6,P21,SDI1,WAF1,p21CIP1

Gene Description: cyclin-dependent kinase inhibitor 1A (p21, Cip1)

Omim ID: [116899](#)

Gene Ontology: [Hyperlink](#)

**Gene Summary:** This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of this gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen (PCNA), a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of CDK2, and may be instrumental in the execution of apoptosis following caspase activation. Two alternatively spliced variants, which encode an identical protein, have been reported. [provided by RefSeq]

Other Designations: CDK-interaction protein 1,DNA synthesis inhibitor,OTTHUMP00000016298,cyclin-dependent kinase inhibitor 1A,melanoma differentiation associated protein 6,wild-type p53-activated fragment 1

## Gene Information

Entrez GeneID: [4089](#)

Gene Name: SMAD4

Gene Alias: DPC4,JIP,MADH4

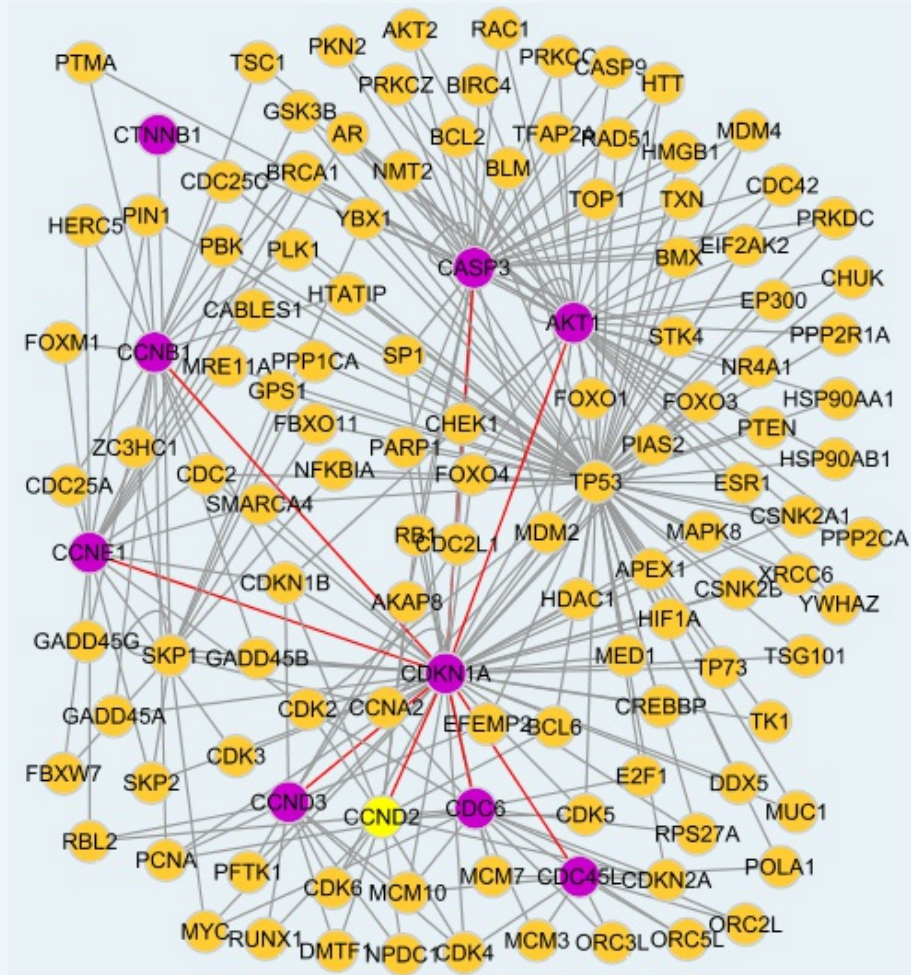
Gene Description: SMAD family member 4

Omim ID: [174900](#), [175050](#), [600993](#)

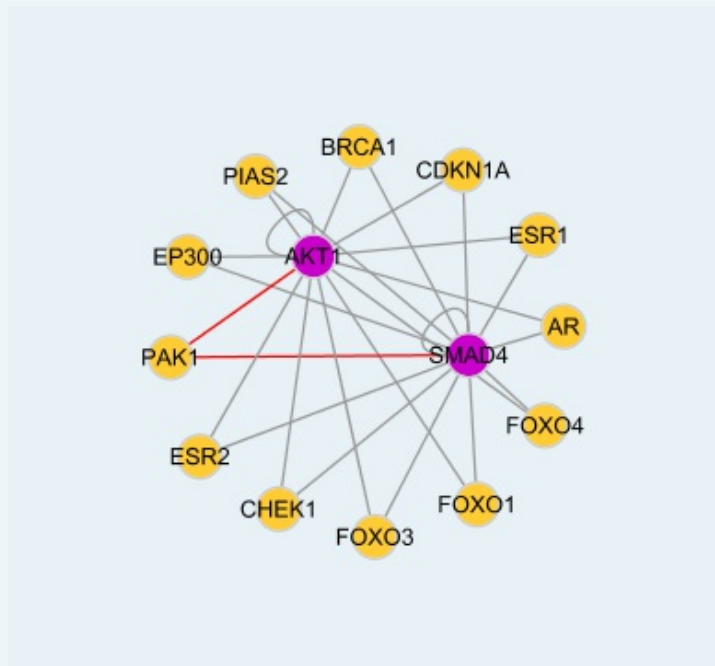
Gene Ontology: [Hyperlink](#)

**Other** MAD, mothers against decapentaplegic homolog  
**Designations:** 4,OTTHUMP00000163548,SMAD, mothers against DPP homolog  
4,deleted in pancreatic carcinoma locus 4,mothers against  
decapentaplegic homolog 4,mothers against decapentaplegic,  
Drosophila, homolog of, 4

### Interactome 1



### Interactome 2



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