



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## MAX & SMAD3 Protein Protein Interaction Antibody Pair

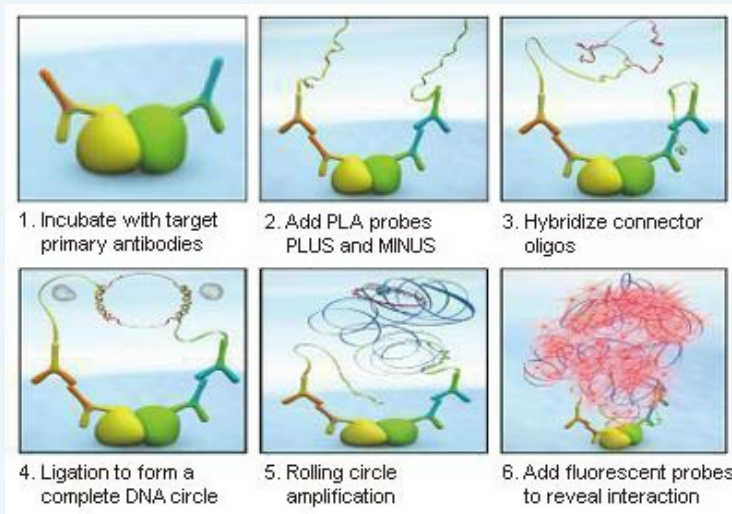
Catalog # : DI0382

規格 : [ 1 Set ]

List All

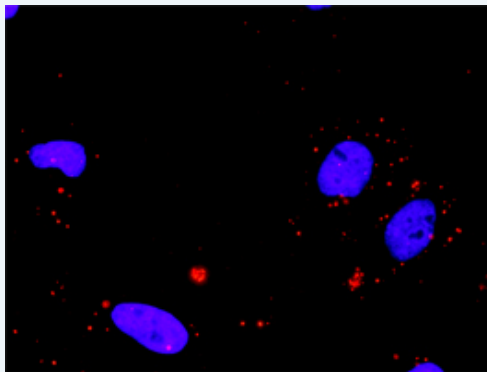
### Specification

**Product Description:** This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the MAX protein, and the other against the SMAD3 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.



**Reactivity:** Human

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



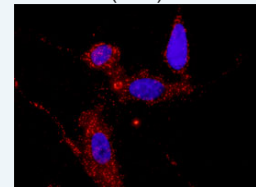
Representative image of Proximity Ligation Assay of protein-protein interactions between MAX and SMAD3. HeLa cells were stained with anti-MAX rabbit purified polyclonal antibody 1:1200 and anti-SMAD3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction 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. MAX rabbit purified polyclonal antibody (20 ug)  
 2. SMAD3 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 -

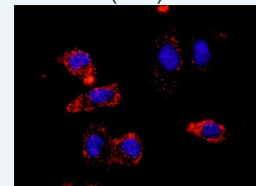
### Application Image

*In situ* Proximity Ligation Assay (Cell)



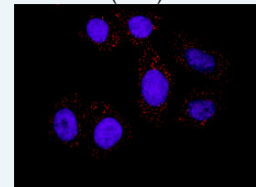
[enlarge](#)

*In situ* Proximity Ligation Assay (Cell)



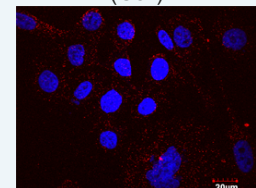
[enlarge](#)

*In situ* Proximity Ligation Assay (Cell)



[enlarge](#)

*In situ* Proximity Ligation Assay (Cell)



[enlarge](#)

MSDS:

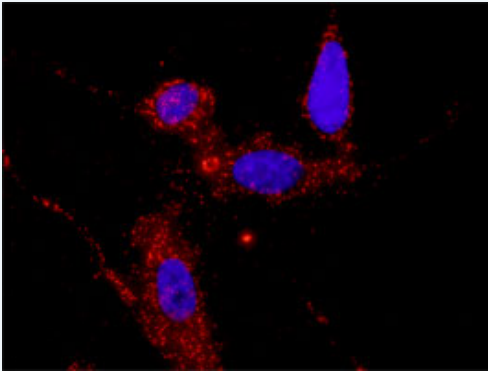


## Publication Reference

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]

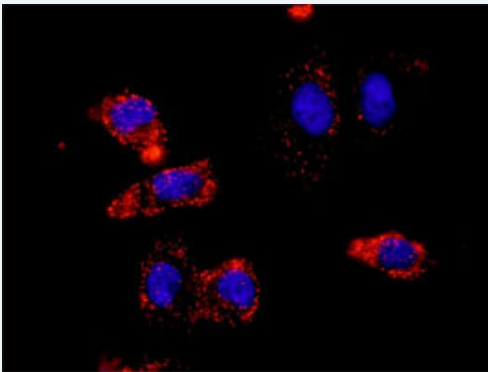
## Applications

### *In situ* Proximity Ligation Assay (Cell)



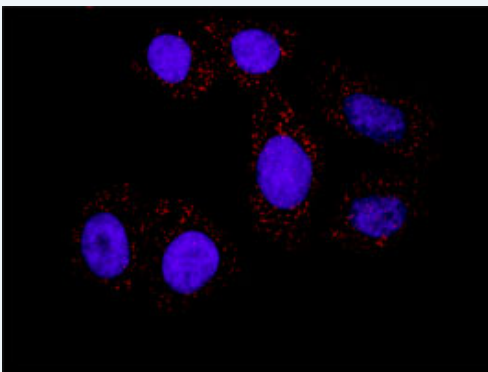
Representative image of Proximity Ligation Assay of protein-protein interactions between MAX and SMAD3. PC-3 cells were stained with anti-MAX rabbit purified polyclonal antibody 1:100 and anti-SMAD3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

### *In situ* Proximity Ligation Assay (Cell)



Representative image of Proximity Ligation Assay of protein-protein interactions between MAX and SMAD3. A-549 cells were stained with anti-MAX rabbit purified polyclonal antibody 1:100 and anti-SMAD3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

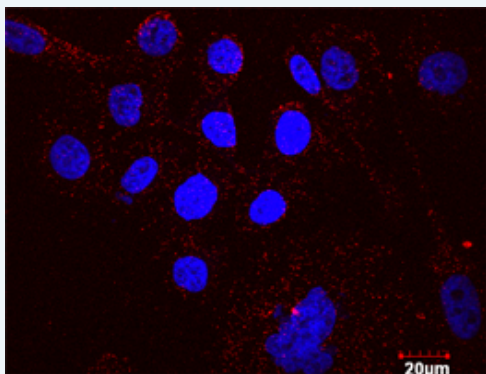
### *In situ* Proximity Ligation Assay (Cell)



Representative image of Proximity Ligation Assay of protein-protein interactions between MAX and SMAD3. HT-29 cells were stained with anti-MAX rabbit purified polyclonal antibody

1:100 and anti-SMAD3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

#### ***In situ* Proximity Ligation Assay (Cell)**



Confocal microscopy image of Proximity Ligation Assay of protein-protein interactions between MAX and SMAD3. PC-3 cells were stained with anti-MAX rabbit purified polyclonal antibody 1:100 and anti-SMAD3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

[SMAD3](#) [MAX](#)

#### **Gene Information**

**Entrez GeneID:** [4149](#)

**Gene Name:** MAX

**Gene Alias:** MGC10775,MGC11225,MGC18164,MGC34679,MGC36767,bHLHd4,bHLHd5,bHLHd6,bHLHd7,bHLHd8,orf1

**Gene Description:** MYC associated factor X

**Omim ID:** [154950](#)

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

**Gene Summary:** The protein encoded by this gene is a member of the basic helix-loop-helix leucine zipper (bHLHZ) family of transcription factors. It is able to form homodimers and heterodimers with other family members, which include Mad, Mxi1 and Myc. Myc is an oncoprotein implicated in cell proliferation, differentiation and apoptosis. The homodimers and heterodimers compete for a common DNA target site (the E box) and rearrangement among these dimer forms provides a complex system of transcriptional regulation. Multiple alternatively spliced transcript variants have been described for this gene but the full-length nature for some of them is unknown. [provided by RefSeq]

**Other Designations:** MAX protein,helix-loop-helix zipper protein,myc-associated factor X

#### **Gene Information**

**Entrez GeneID:** [4088](#)

**Gene Name:** SMAD3

**Gene Alias:** DKFZp586N0721,DKFZp686J10186,HSPC193,HsT17436,JV15-2,MADH3,MGC60396

**Gene Description:** SMAD family member 3

**Omim ID:** [603109](#)

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

**Gene Summary:** The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein functions as a transcriptional modulator activated by transforming growth factor-beta and is thought to play a role in the regulation of carcinogenesis. [provided by RefSeq]

**Other Designations:** MAD, mothers against decapentaplegic homolog 3, SMA- and MAD-related protein 3, SMAD, mothers against DPP homolog 3, mad homolog JV15-2, mad protein homolog, mothers against decapentaplegic homolog 3

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