



# SZABO SCANDIC

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- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## SMAD1 & GSK3B Protein Protein Interaction Antibody Pair

Catalog # : DI0224

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 SMAD1 protein, and the other against the GSK3B protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

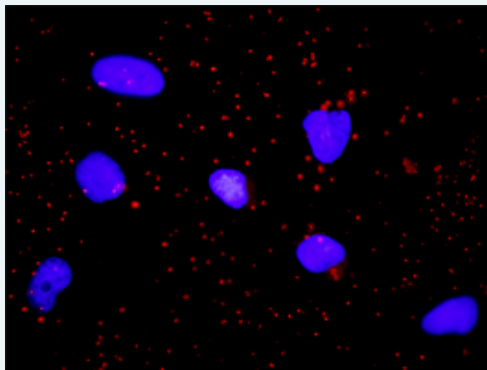
### Application Image

*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 SMAD1 and GSK3B. HeLa cells were stained with anti-SMAD1 rabbit purified polyclonal antibody 1:1200 and anti-GSK3B 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. SMAD1 rabbit purified polyclonal antibody (20 ug)  
 2. GSK3B 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)

[GSK3B](#) [SMAD1](#)

## Gene Information

Entrez GeneID: [4086](#)

Gene Name: SMAD1

Gene Alias: BSP1,JV4-1,JV41,MADH1,MADR1

Gene Description: SMAD family member 1

Omim ID: [601595](#)

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 mediates the signals of the bone morphogenetic proteins (BMPs), which are involved in a range of biological activities including cell growth, apoptosis, morphogenesis, development and immune responses. In response to BMP ligands, this protein can be phosphorylated and activated by the BMP receptor kinase. The phosphorylated form of this protein forms a complex with SMAD4, which is important for its function in the transcription regulation. This protein is a target for SMAD-specific E3 ubiquitin ligases, such as SMURF1 and SMURF2, and undergoes ubiquitination and proteasome-mediated degradation. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq]

**Other Designations:** MAD, mothers against decapentaplegic homolog 1, Mad-related protein 1, SMAD, mothers against DPP homolog 1, Sma- and Mad-related protein 1, TGF-beta signaling protein 1, mothers against DPP homolog 1, transforming growth factor-beta signaling protein 1

## Gene Information

Entrez GeneID: [2932](#)

Gene Name: GSK3B

Gene Alias: -

Gene Description: glycogen synthase kinase 3 beta

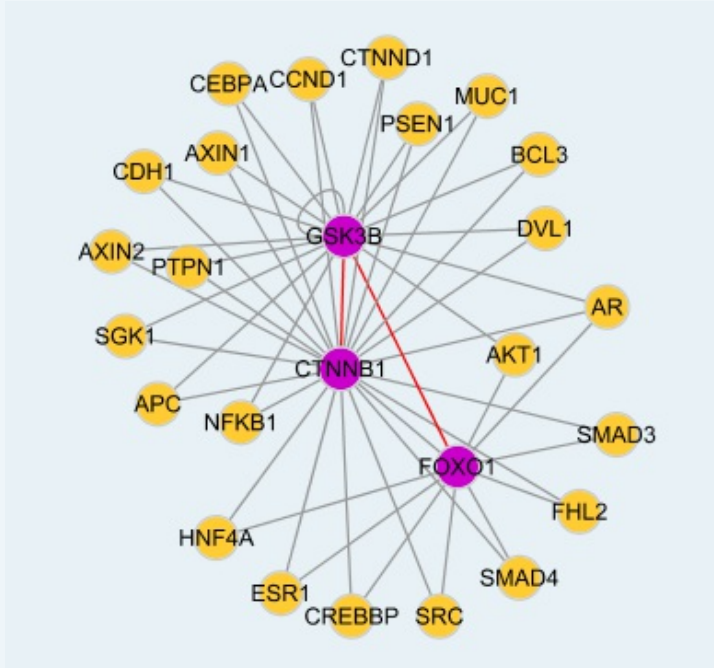
Omim ID: [605004](#)

Gene Ontology: [Hyperlink](#)

**Gene Summary:** The protein encoded by this gene is a serine-threonine kinase, belonging to the glycogen synthase kinase subfamily. It is involved in energy metabolism, neuronal cell development, and body pattern formation. Polymorphisms in this gene have been implicated in modifying risk of Parkinson disease, and studies in mice show that overexpression of this gene may be relevant to the pathogenesis of Alzheimer disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene

**Other Designations:** GSK3beta isoform, glycogen synthase kinase-3 beta

### Interactome



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