



# 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

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## STAT1 & PIAS1 Protein Protein Interaction Antibody Pair

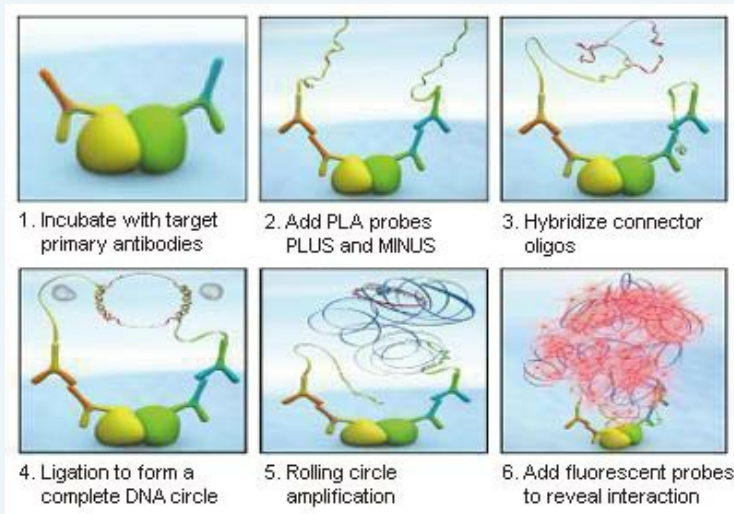
Catalog # : DI0438

規格 : [ 1 Set ]

List All

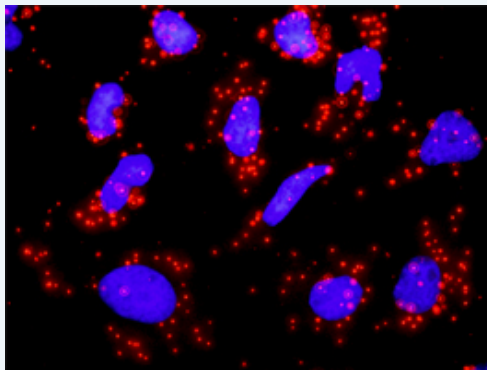
### Specification

**Product Description:** This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the STAT1 protein, and the other against the PIAS1 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.



**Reactivity:** Human

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



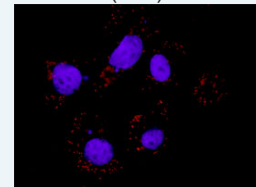
Representative image of Proximity Ligation Assay of protein-protein interactions between STAT1 and PIAS1. HeLa cells were stained with anti-STAT1 rabbit purified polyclonal antibody 1:1200 and anti-PIAS1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction 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. STAT1 rabbit purified polyclonal antibody (20 ug)  
 2. PIAS1 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 -

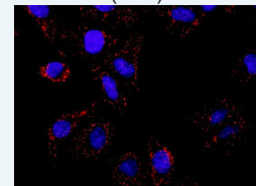
### Application Image

*In situ* Proximity Ligation Assay (Cell)



[enlarge](#)

*In situ* Proximity Ligation Assay (Cell)



[enlarge](#)

20°C storage immediately after use.

MSDS:

 [Download](#)

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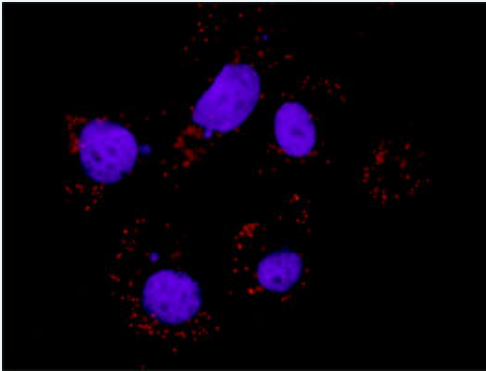
### Publication Reference

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]

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### Applications

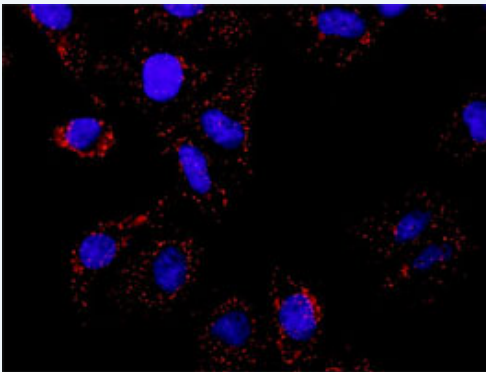
#### *In situ* Proximity Ligation Assay (Cell)



Representative image of Proximity Ligation Assay of protein-protein interactions between STAT1 and PIAS1. PC-3 cells were stained with anti-STAT1 rabbit purified polyclonal antibody 1:100 and anti-PIAS1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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



Representative image of Proximity Ligation Assay of protein-protein interactions between STAT1 and PIAS1. A-549 cells were stained with anti-STAT1 rabbit purified polyclonal antibody 1:100 and anti-PIAS1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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[STAT1](#) [PIAS1](#)

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### Gene Information

Entrez GeneID: [6772](#)

Gene Name: STAT1

Gene Alias: DKFZp686B04100,ISGF-3,STAT91

Gene Description: signal transducer and activator of transcription 1, 91kDa

Omim ID: [209950](#), [600555](#)

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

**Gene Summary:** The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. Two alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq]

**Other Designations:** OTTHUMP00000165047,signal transducer and activator of transcription 1,signal transducer and activator of transcription-1,transcription factor ISGF-3 components p91/p84

### Gene Information

**Entrez GeneID:** [8554](#)

**Gene Name:** PIAS1

**Gene Alias:** DDXBP1,GBP,GU/RH-II,MGC141878,MGC141879,ZMIZ3

**Gene Description:** protein inhibitor of activated STAT, 1

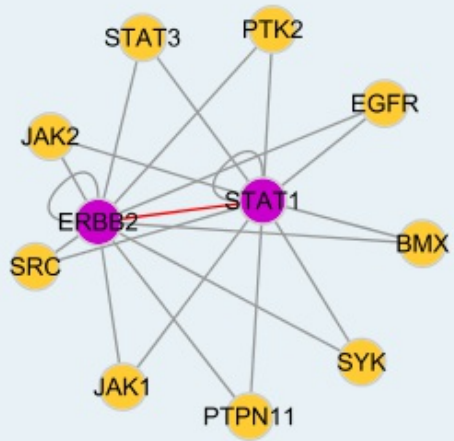
**Omim ID:** [603566](#)

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

**Gene Summary:** This gene encodes a member of the mammalian PIAS [protein inhibitor of activated STAT-1 (signal transducer and activator of transcription-1)] family. This member contains a putative zinc-binding motif and a highly acidic region. It inhibits STAT1-mediated gene activation and the DNA binding activity, binds to Gu protein/RNA helicase II/DEAD box polypeptide 21, and interacts with androgen receptor (AR). It functions in testis as a nuclear receptor transcriptional coregulator and may have a role in AR initiation and maintenance of spermatogenesis. [provided by RefSeq]

**Other Designations:** AR interacting protein,DEAD/H (Asp-Glu-Ala-Asp/His) box binding protein 1,protein inhibitor of activated STAT-1,zinc finger, MIZ-type containing 3

### Interactome



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