



# SZABO SCANDIC

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Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## HDAC2 & STAT3 Protein Protein Interaction Antibody Pair

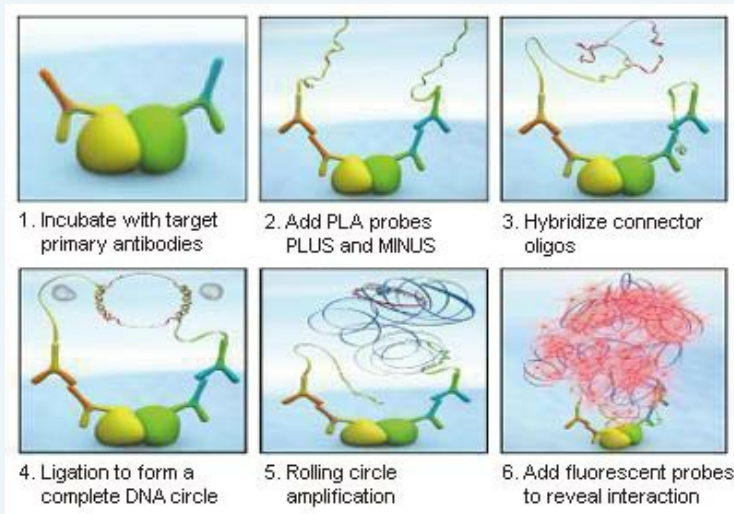
Catalog # : DI0601

規格 : [ 1 Set ]

List All

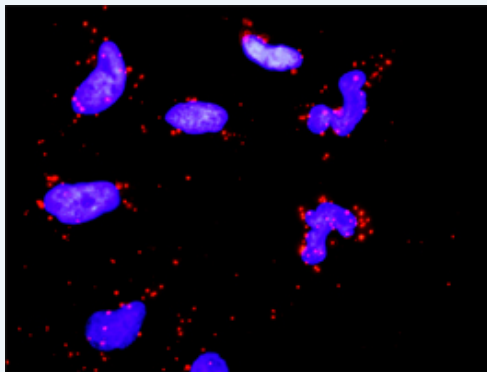
### Specification

**Product Description:** This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the HDAC2 protein, and the other against the STAT3 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.



**Reactivity:** Human

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



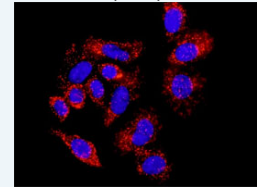
Representative image of Proximity Ligation Assay of protein-protein interactions between HDAC2 and STAT3. HeLa cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:1200 and anti-STAT3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction 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. HDAC2 rabbit purified polyclonal antibody (20 ug)  
 2. STAT3 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 -

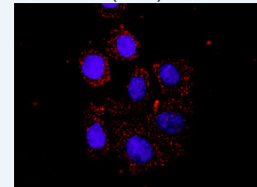
### Application Image

*In situ* Proximity Ligation Assay (Cell)



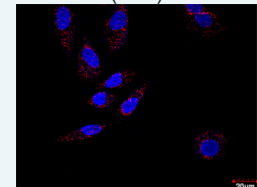
[enlarge](#)

*In situ* Proximity Ligation Assay (Cell)



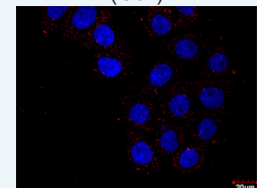
[enlarge](#)

*In situ* Proximity Ligation Assay (Cell)



[enlarge](#)

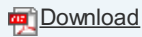
*In situ* Proximity Ligation Assay (Cell)



[enlarge](#)

20°C storage immediately after use.

MSDS:

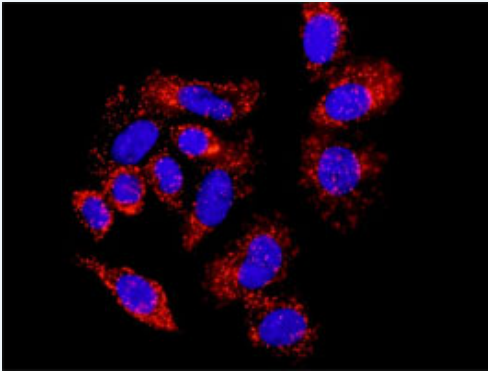


## Publication Reference

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]

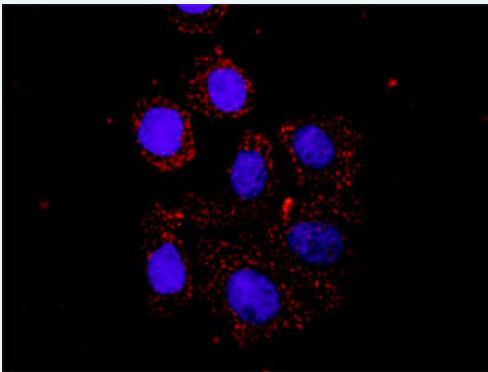
## Applications

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



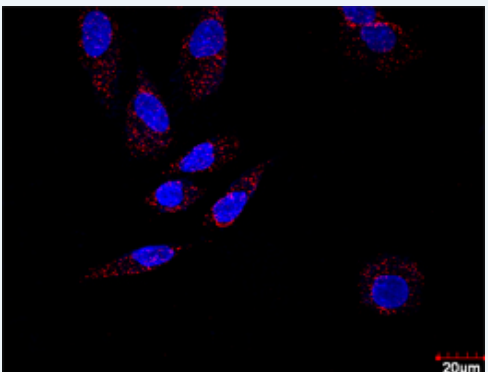
Representative image of Proximity Ligation Assay of protein-protein interactions between HDAC2 and STAT3. A-549 cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:100 and anti-STAT3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction 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 HDAC2 and STAT3. HT-29 cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:100 and anti-STAT3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

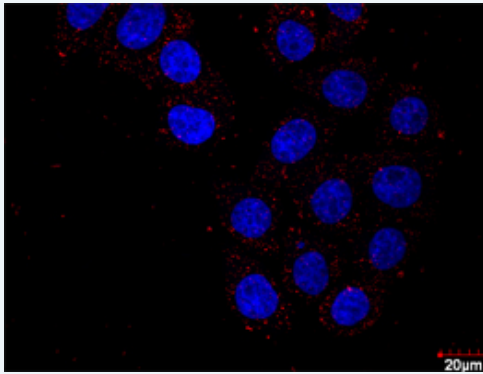
### *In situ* Proximity Ligation Assay (Cell)



Confocal microscopy image of Proximity Ligation Assay of protein-protein interactions between HDAC2 and STAT3. A-549 cells were stained with anti-HDAC2 rabbit purified

polyclonal antibody 1:100 and anti-STAT3 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 HDAC2 and STAT3. HT-29 cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:100 and anti-STAT3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

HDAC2 STAT3

#### **Gene Information**

**Entrez GeneID:** [3066](#)

**Gene Name:** HDAC2

**Gene Alias:** RPD3,YAF1

**Gene Description:** histone deacetylase 2

**Omim ID:** [605164](#)

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

**Gene Summary:** This gene product belongs to the histone deacetylase family. Histone deacetylases act via the formation of large multiprotein complexes and are responsible for the deacetylation of lysine residues on the N-terminal region of the core histones (H2A, H2B, H3 and H4). This protein also forms transcriptional repressor complexes by associating with many different proteins, including YY1, a mammalian zinc-finger transcription factor. Thus it plays an important role in transcriptional regulation, cell cycle progression and developmental events. [provided by RefSeq]

**Other Designations:** OTTHUMP00000040427,YY1-associated factor 1,transcriptional regulator homolog RPD3

#### **Gene Information**

**Entrez GeneID:** [6774](#)

**Gene Name:** STAT3

**Gene Alias:** APRF,FLJ20882,HIES,MGC16063

**Gene Description:** signal transducer and activator of transcription 3 (acute-phase response factor)

**Omim ID:** [102582](#)

**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 is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Three alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq]

**Other Designations:** DNA-binding protein APRF, acute-phase response factor, signal transducer and activator of transcription 3

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