



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## HDAC2 & HDAC1 Protein Protein Interaction Antibody Pair

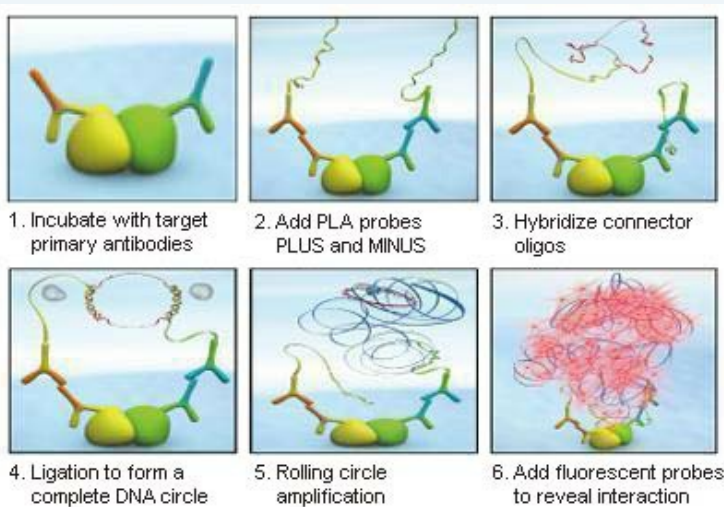
Catalog # : DI0614

規格 : [ 1 Set ]

[List All](#)

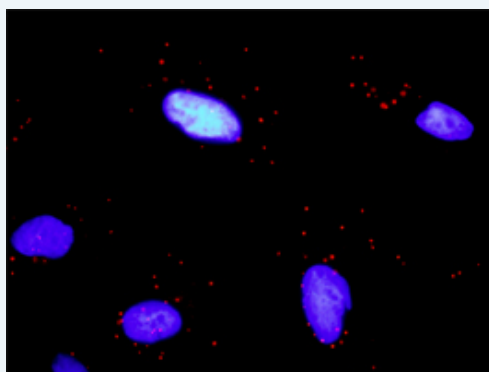
### Specification

**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 HDAC1 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.



**Reactivity:** Human

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



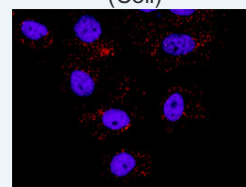
Representative image of Proximity Ligation Assay of protein-protein interactions between HDAC2 and HDAC1. HeLa cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:1200 and anti-HDAC1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction 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. HDAC1 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 -

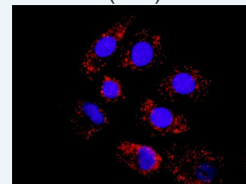
### Application Image

*In situ* Proximity Ligation Assay (Cell)



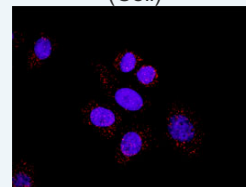
[enlarge](#)

*In situ* Proximity Ligation Assay (Cell)



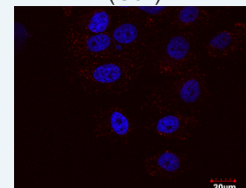
[enlarge](#)

*In situ* Proximity Ligation Assay (Cell)



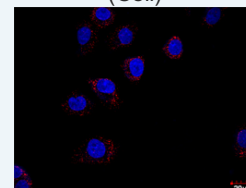
[enlarge](#)

*In situ* Proximity Ligation Assay (Cell)



[enlarge](#)

*In situ* Proximity Ligation Assay (Cell)



[enlarge](#)

*In situ* Proximity Ligation Assay (Cell)

MSDS:

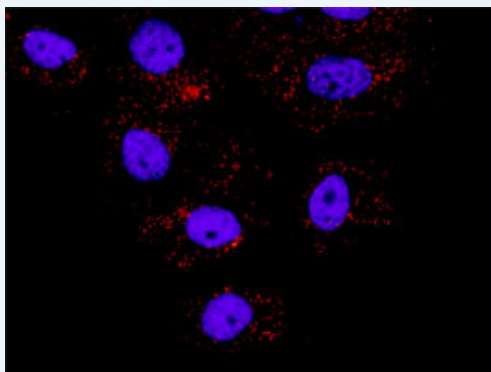


## Publication Reference

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]

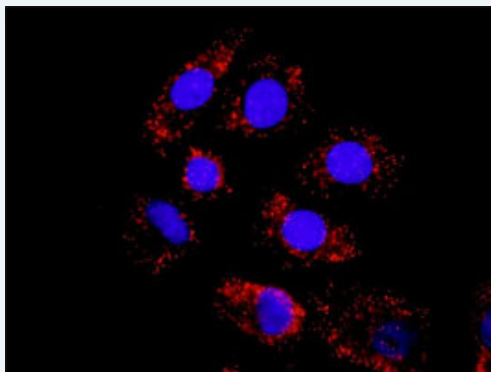
## Applications

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



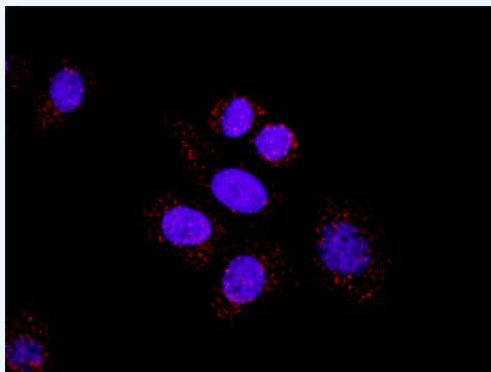
Representative image of Proximity Ligation Assay of protein-protein interactions between HDAC2 and HDAC1. PC-3 cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:100 and anti-HDAC1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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

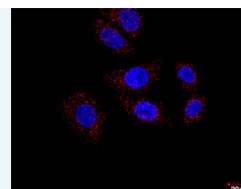


Representative image of Proximity Ligation Assay of protein-protein interactions between HDAC2 and HDAC1. A-549 cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:100 and anti-HDAC1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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



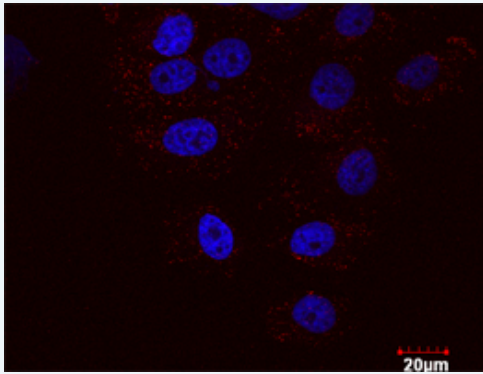
Representative image of Proximity Ligation Assay of protein-protein interactions between HDAC2 and HDAC1. HT-29 cells were stained with anti-HDAC2 rabbit purified polyclonal



 [enlarge](#)

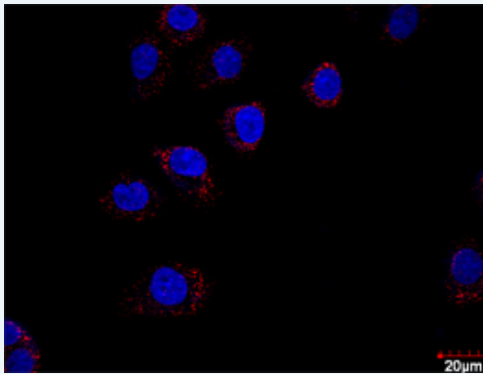
antibody 1:100 and anti-HDAC1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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



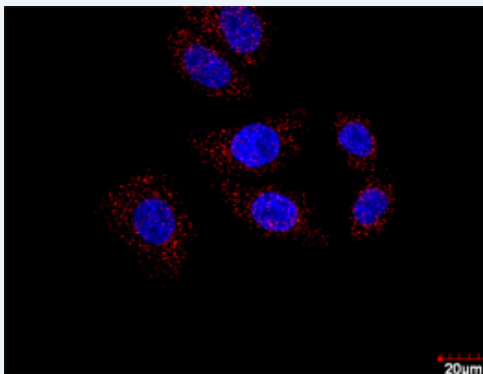
Confocal microscopy image of Proximity Ligation Assay of protein-protein interactions between HDAC2 and HDAC1. PC-3 cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:100 and anti-HDAC1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction 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 HDAC1. A-549 cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:100 and anti-HDAC1 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 HDAC1. HT-29 cells were stained with anti-HDAC2 rabbit purified polyclonal antibody 1:100 and anti-HDAC1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

[HDAC1](#) [HDAC2](#)

#### **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:** [3065](#)

**Gene Name:** HDAC1

**Gene Alias:** DKFZp686H12203,GON-10,HD1,RPD3,RPD3L1

**Gene Description:** histone deacetylase 1

**Omim ID:** [601241](#)

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

**Gene Summary:** Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis. [provided by RefSeq]

**Other Designations:** OTTHUMP00000008745,reduced potassium dependency, yeast homolog-like 1