



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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- 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) 

## TP53(phospho S46) & TP53 Protein Phosphorylation Antibody Pair

Catalog # : DP0095

規格 : [ 1 Set ]

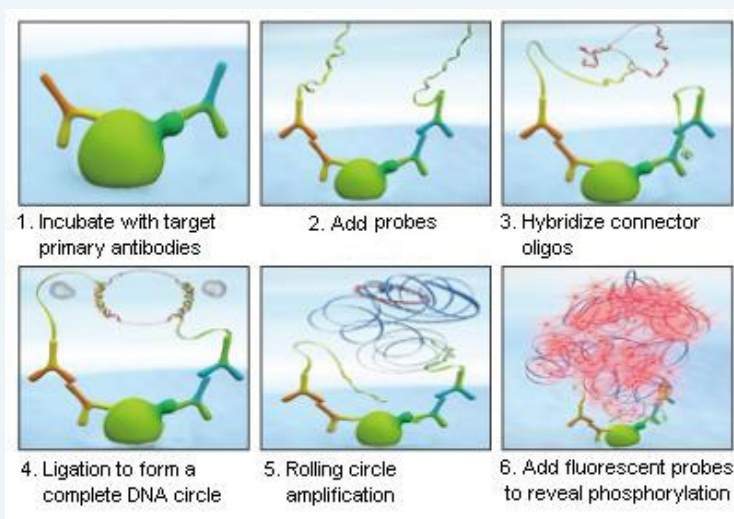
List All

### Specification

**Product Description:** This protein phosphorylation antibody pair set comes with two antibodies, one against the TP53 protein, and the other against the specific S46 phosphorylated site of TP53 for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

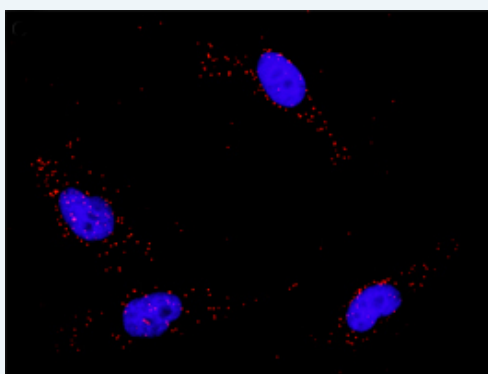
### Application Image

*In situ* Proximity Ligation Assay (Cell)



**Reactivity:** Human

**Quality Control Testing:** Dual recognition immunofluorescence result.



Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal antibody 1:50. Each red dot represents one single phosphorylated protein. 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. Phospho-TP53 S46 rabbit polyclonal antibody (20 ul)  
 In PBS (0.09% (w/v) sodium azide)  
 2. TP53 mouse monoclonal antibody (40 ug)  
 In 1x PBS, pH 7.2  
 \*Reagents are sufficient for at least 30-50 assays using recommended protocols.

**Storage** Store reagents of the antibody pair set at -20°C or lower. Please aliquot  
**Instruction:** to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use.

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### Publication Reference

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1. In situ detection of phosphorylated platelet-derived growth factor receptor beta using a generalized proximity ligation method.  
Jarvius M, Paulsson J, Weibrecht I, Leuchowius KJ, Andersson AC, Wahlby C, Gullberg M, Botling J, Sjoblom T, Markova B, Ostman A, Landegren U, Soderberg O.  
Mol Cell Proteomics. 2007 Sep;6(9):1500-9. Epub 2007 Jun 12.
2. Direct observation of individual endogenous protein complexes in situ by proximity ligation.  
Soderberg O, Gullberg M, Jarvius M, Ridderstrale K, Leuchowius KJ, Jarvius J, Wester K, Hydbring P, Bahram F, Larsson LG, and Landegren U.  
Nat Methods. 2006 Dec;3(12):995-1000. Epub 2006 Oct 29.
3. Cytokine detection by antibody-based proximity ligation.  
Gullberg M, Gustafsdottir SM, Schallmeiner E, Jarvius J, Bjarnegard M, Betsholtz C, Landegren U, and Fredriksson S.  
Proc Natl Acad Sci U S A. 2004 Jun 1;101(22):8420-4. Epub 2004 May 21.
4. Protein detection using proximity-dependent DNA ligation assays.  
Fredriksson S, Gullberg M, Jarvius J, Olsson C, Pietras K, Gustafsdottir SM, Ostman A, and Landegren U.  
Nat Biotechnol. 2002 May;20(5):473-7.
5. Highly specific detection of phosphorylated proteins by Duolink  
Mats Gullberg and Ann-Catrin Andersson  
Nature Methods 6. 2009

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### Applications

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

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### Gene Information

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**Entrez GeneID:** [7157](#)

**Gene Name:** TP53

**Gene Alias:** FLJ92943,LFS1,TRP53,p53

**Gene Description:** tumor protein p53

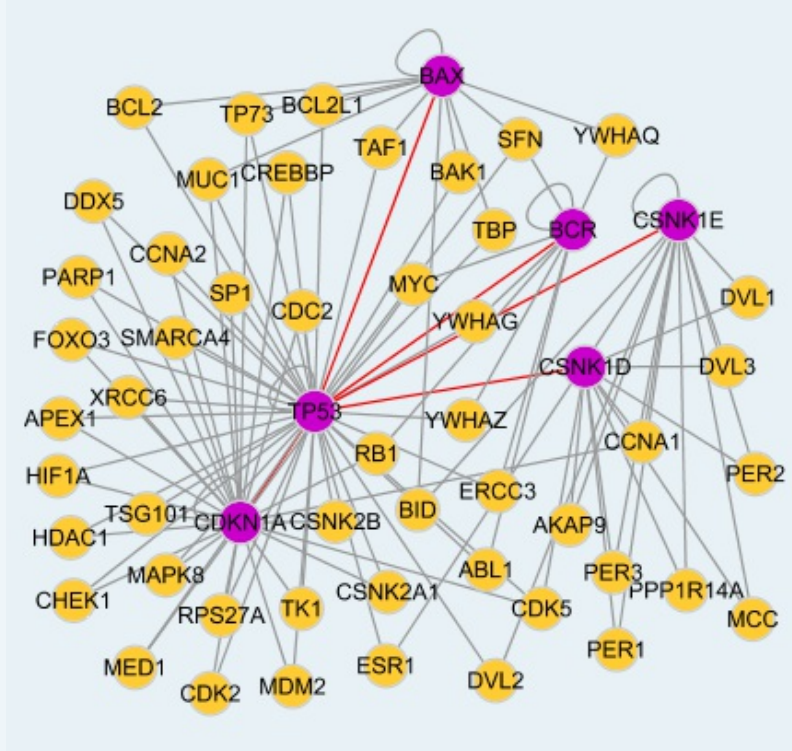
**Omim ID:** [114480](#), [114500](#), [114550](#), [151623](#), [161550](#), [191170](#), [202300](#), [260350](#)

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

**Gene Summary:** This gene encodes tumor protein p53, which responds to diverse cellular stresses to regulate target genes that induce cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. p53 protein is expressed at low level in normal cells and at a high level in a variety of transformed cell lines, where it's believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing transcription activation, DNA-binding, and oligomerization domains. It is postulated to bind to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site, and hence cause the loss of tumor suppressor activity. Alterations of this gene occur not only as somatic mutations in human malignancies, but also as germline mutations in some cancer-prone families with Li-Fraumeni syndrome. Multiple p53 variants due to alternative promoters and multiple alternative splicing have been found. These variants encode distinct isoforms, which can regulate p53 transcriptional activity. [provided by RefSeq]

**Other** p53 antigen,p53 transformation suppressor,p53 tumor  
**Designations:** suppressor,phosphoprotein p53,transformation-related protein 53

### Interactome



### Gene Pathway

[Amyotrophic lateral sclerosis \(ALS\)](#) [Apoptosis](#) [Basal cell carcinoma](#) [Bladder cancer](#) [Cell cycle](#) [Chronic myeloid leukemia](#) [Colorectal cancer](#) [Endometrial cancer](#) [Glioma](#) [Huntington's disease](#) [MAPK signaling pathway](#) [Melanoma](#) [Neurotrophin signaling pathway](#) [Non-small cell lung cancer](#) [p53 signaling pathway](#) [Pancreatic cancer](#) [Pathways in cancer](#) [Prostate cancer](#) [Small cell lung cancer](#) [Thyroid cancer](#) [Wnt signaling pathway](#)

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