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### SZABO-SCANDIC HandelsgmbH

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## NFKB1 & CTNNB1 Protein Protein Interaction Antibody Pair

Catalog # : DI0127

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 NFKB1 protein, and the other against the CTNNB1 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

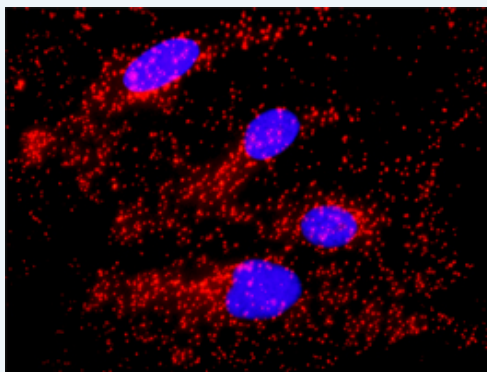


### Application Image

*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 NFKB1 and CTNNB1. HeLa cells were stained with anti-NFKB1 rabbit purified polyclonal antibody 1:1200 and anti-CTNNB1 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. NFKB1 rabbit purified polyclonal antibody (20 ug)  
 2. CTNNB1 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)

[CTNNB1](#) [NFKB1](#)

## Gene Information

Entrez GeneID: [4790](#)

Gene Name: NFKB1

Gene Alias: DKFZp686C01211,EBP-1,KBF1,MGC54151,NF-kappa-B,NFKB-p105,NFKB-p50,p105,p50

Gene Description: nuclear factor of kappa light polypeptide gene enhancer in B-cells 1

Omim ID: [164011](#)

Gene Ontology: [Hyperlink](#)

**Gene Summary:** This gene encodes a 105 kD protein which can undergo cotranslational processing by the 26S proteasome to produce a 50 kD protein. The 105 kD protein is a Rel protein-specific transcription inhibitor and the 50 kD protein is a DNA binding subunit of the NF-kappa-B (NFKB) protein complex. NFKB is a transcription regulator that is activated by various intra- and extra-cellular stimuli such as cytokines, oxidant-free radicals, ultraviolet irradiation, and bacterial or viral products. Activated NFKB translocates into the nucleus and stimulates the expression of genes involved in a wide variety of biological functions. Inappropriate activation of NFKB has been associated with a number of inflammatory diseases while persistent inhibition of NFKB leads to inappropriate immune cell development or delayed cell growth. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations: DNA binding factor KBF1,NF-kappabeta,nuclear factor NF-kappa-B p50 subunit,nuclear factor kappa-B DNA binding subunit,nuclear factor kappa-B, subunit 1

## Gene Information

Entrez GeneID: [1499](#)

Gene Name: CTNNB1

Gene Alias: CTNNB,DKFZp686D02253,FLJ25606,FLJ37923

Gene Description: catenin (cadherin-associated protein), beta 1, 88kDa

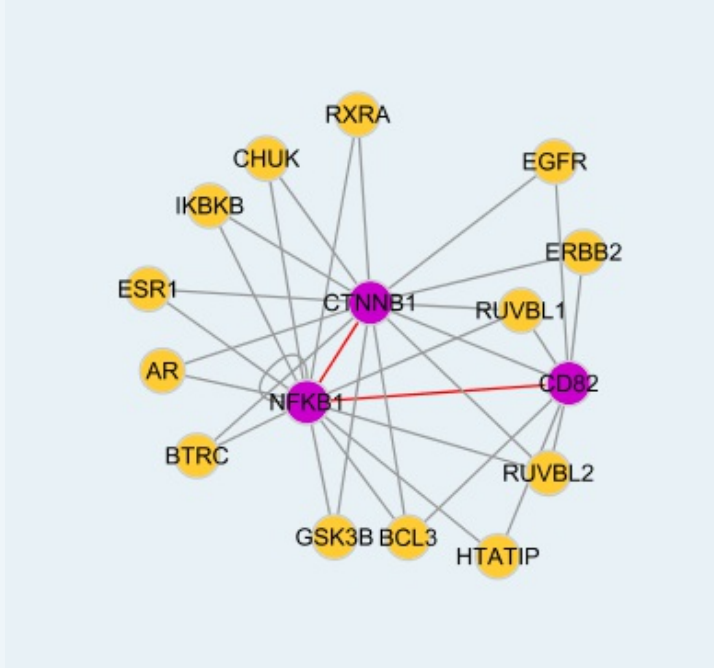
Omim ID: [114550](#), [116806](#), [132600](#), [155255](#)

Gene Ontology: [Hyperlink](#)

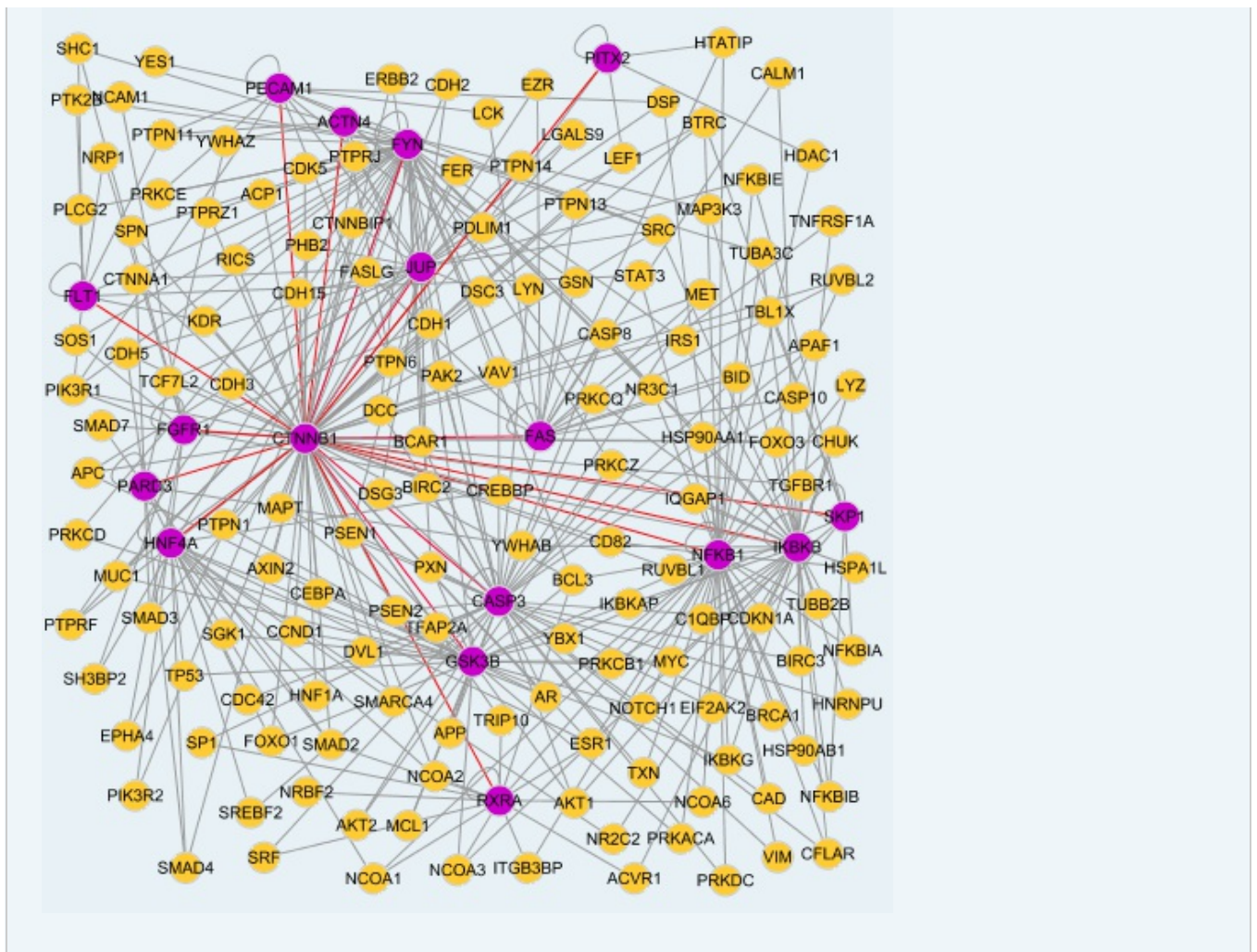
**Gene Summary:** Beta-catenin is an adherens junction protein. Adherens junctions (AJs; also called the zonula adherens) are critical for the establishment and maintenance of epithelial layers, such as those lining organ surfaces. AJs mediate adhesion between cells, communicate a signal that neighboring cells are present, and anchor the actin cytoskeleton. In serving these roles, AJs regulate normal cell growth and behavior. At several stages of embryogenesis, wound healing, and tumor cell metastasis, cells form and leave epithelia. This process, which involves the disruption and reestablishment of epithelial cell-cell contacts, may be regulated by the disassembly and assembly of AJs. AJs may also function in the transmission of the 'contact inhibition' signal, which instructs cells to stop dividing once an epithelial sheet is complete. [supplied by OMIM]

**Other Designations:** OTTHUMP00000165222,OTTHUMP00000165223,catenin (cadherin-associated protein), beta 1 (88kD),catenin beta-1

### Interactome 1



### Interactome 2



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