



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## CASP3 & APP Protein Protein Interaction Antibody Pair

Catalog # : DI0058

規格 : [ 1 Set ]

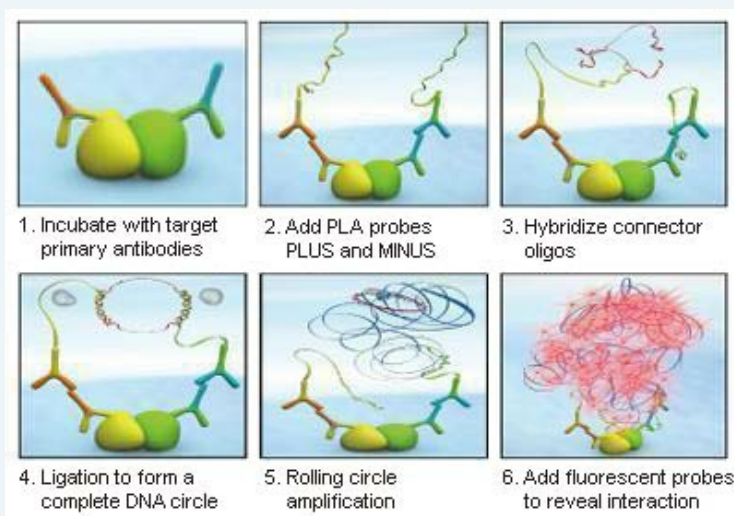
List All

### Specification

**Product Description:** This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the CASP3 protein, and the other against the APP protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

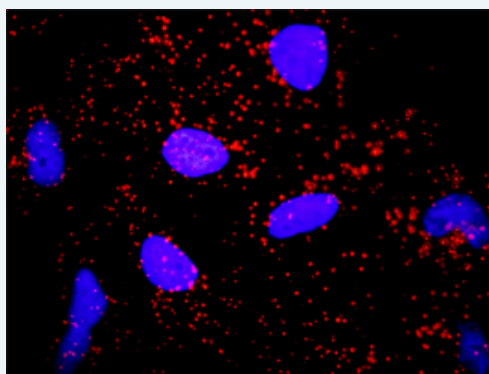
### Application Image

*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 CASP3 and APP. HeLa cells were stained with anti-CASP3 rabbit purified polyclonal antibody 1:1200 and anti-APP 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. CASP3 rabbit purified polyclonal antibody (20 ug)  
 2. APP 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)

[APP](#) [CASP3](#)

### Gene Information

Entrez GeneID: [836](#)

Gene Name: CASP3

Gene Alias: CPP32, CPP32B, SCA-1

Gene Description: caspase 3, apoptosis-related cysteine peptidase

Omim ID: [600636](#)

Gene Ontology: [Hyperlink](#)

**Gene Summary:** This gene encodes a protein which is a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 6, 7 and 9, and the protein itself is processed by caspases 8, 9 and 10. It is the predominant caspase involved in the cleavage of amyloid-beta 4A precursor protein, which is associated with neuronal death in Alzheimer's disease. Alternative splicing of this gene results in two transcript variants that encode the same protein.  
[provided by RefSeq]

**Other Designations:** OTTHUMP00000165054, PARP cleavage protease, SREBP cleavage activity 1, Yama, apopain, caspase 3, caspase 3, apoptosis-related cysteine protease, cysteine protease CPP32, procaspase3

### Gene Information

Entrez GeneID: [351](#)

Gene Name: APP

Gene Alias: AAA, ABETA, ABPP, AD1, APPI, CTFgamma, CVAP, PN2

Gene Description: amyloid beta (A4) precursor protein

Omim ID: [104760](#), [605714](#)

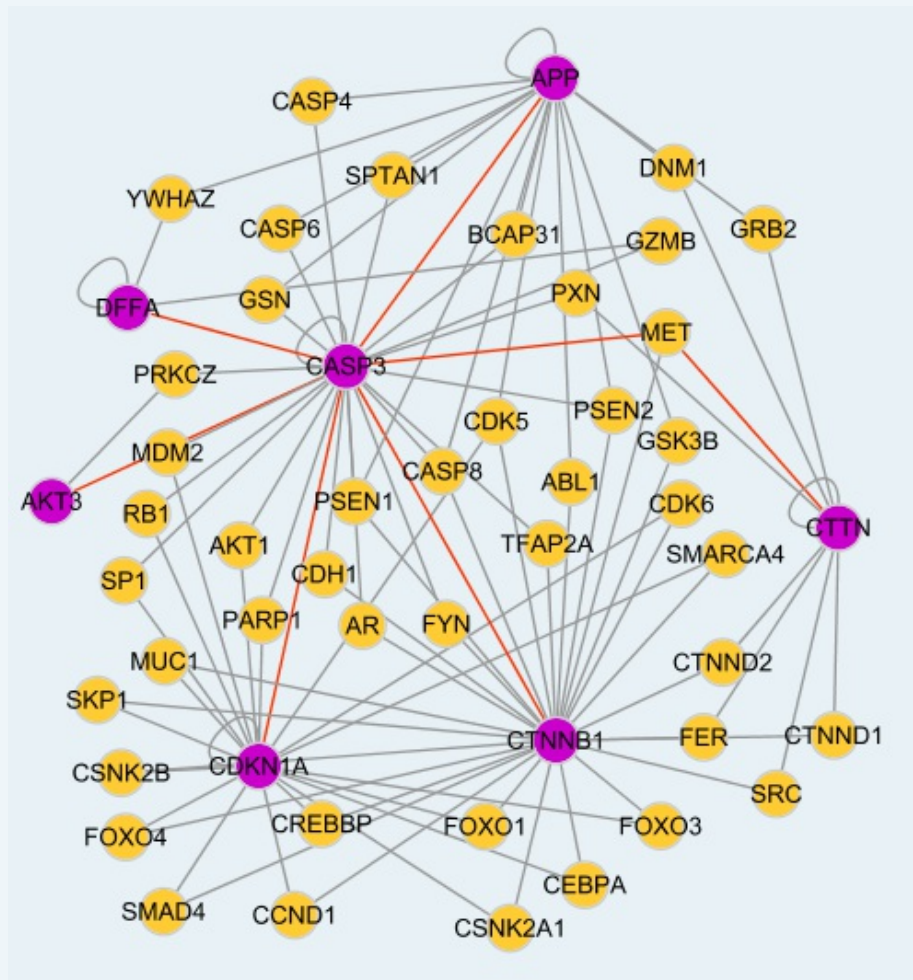
Gene Ontology: [Hyperlink](#)

**Gene Summary:** This gene encodes a cell surface receptor and transmembrane

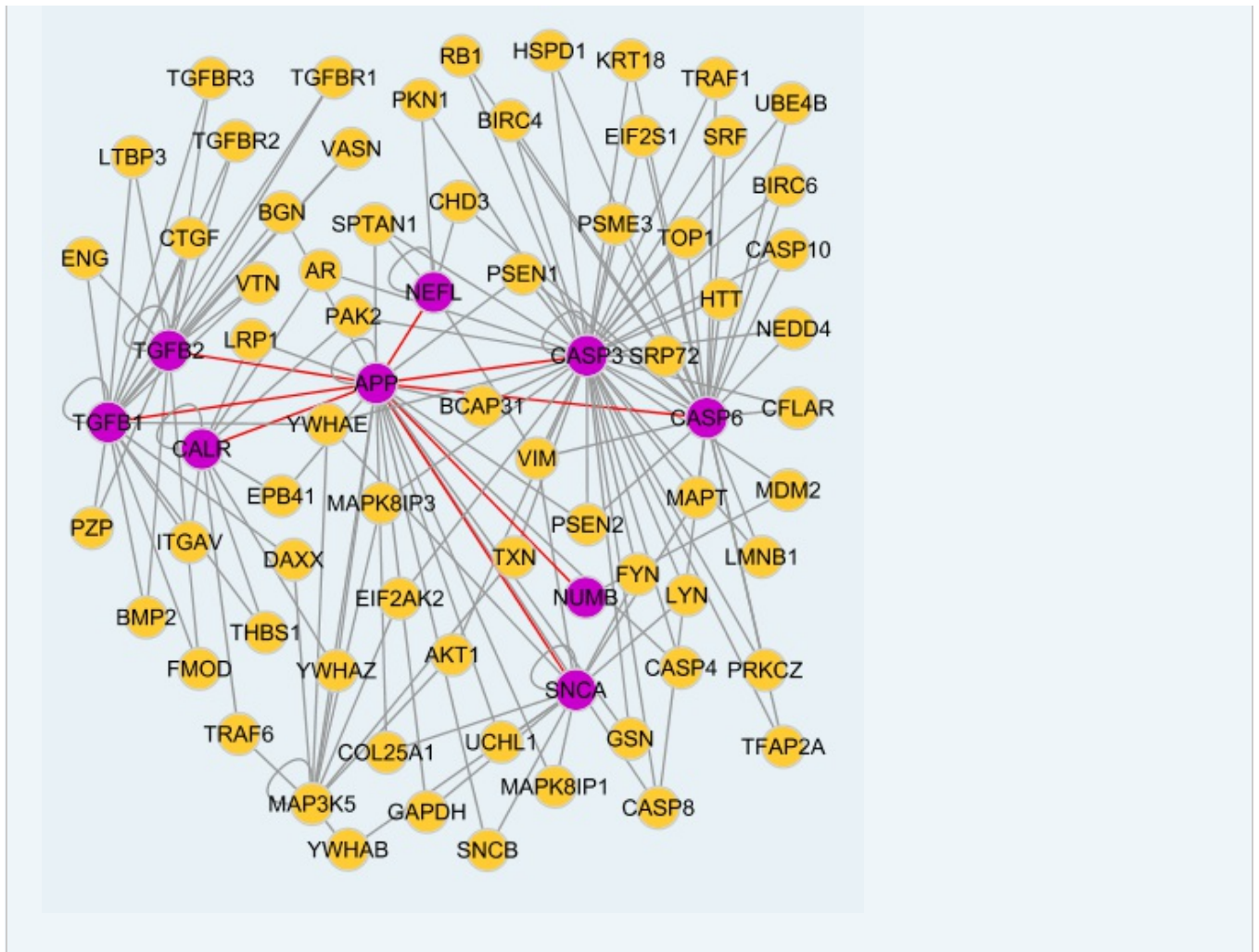
precursor protein that is cleaved by secretases to form a number of peptides. Some of these peptides are secreted and can bind to the acetyltransferase complex APBB1/TIP60 to promote transcriptional activation, while others form the protein basis of the amyloid plaques found in the brains of patients with Alzheimer disease. Mutations in this gene have been implicated in autosomal dominant Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy). Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq]

**Other Designations:** A4 amyloid protein, amyloid beta A4 protein, amyloid-beta protein, beta-amyloid peptide, cerebral vascular amyloid peptide, peptidase nexin-II, protease nexin-II

**Interactome 1**



**Interactome 2**



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