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## STK3 & CASP3 Protein Protein Interaction Antibody Pair

Catalog # : DI0475

規格 : [ 1 Set ]

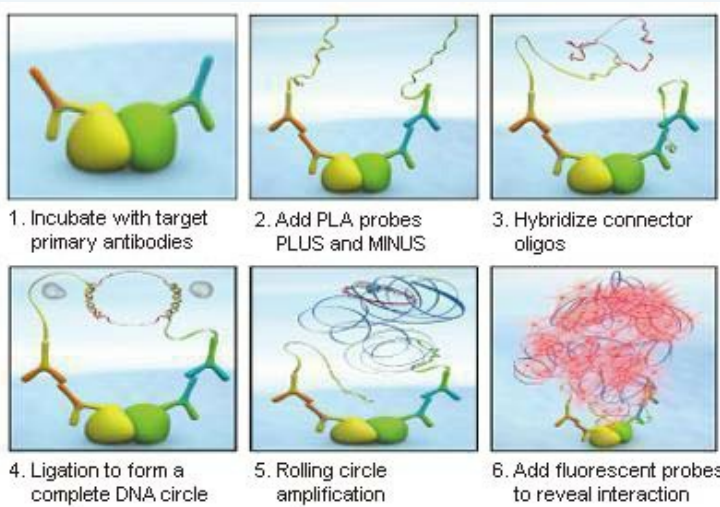
List All

### Specification

**Product Description:** This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the STK3 protein, and the other against the CASP3 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

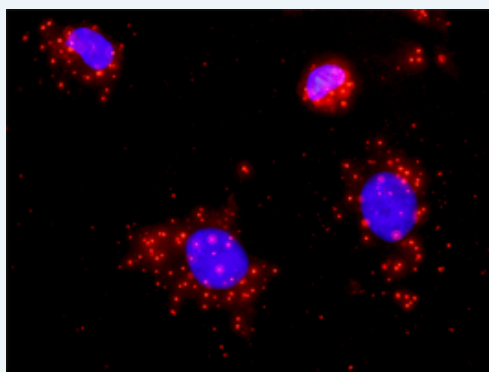
### Application Image

*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 STK3 and CASP3. HeLa cells were stained with anti-STK3 rabbit purified polyclonal antibody 1:1200 and anti-CASP3 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. STK3 rabbit purified polyclonal antibody (20 ug)  
 2. CASP3 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 -

**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)**[CASP3](#) [STK3](#)**Gene Information****Entrez GeneID:** [6788](#)**Gene Name:** STK3**Gene Alias:** FLJ90748,KRS1,MST2**Gene Description:** serine/threonine kinase 3 (STE20 homolog, yeast)**Omim ID:** [605030](#)**Gene Ontology:** [Hyperlink](#)

**Gene Summary:** Protein kinase activation is a frequent response of cells to treatment with growth factors, chemicals, heat shock, or apoptosis-inducing agents. This protein kinase activation presumably allows cells to resist unfavorable environmental conditions. The yeast 'sterile 20' (Ste20) kinase acts upstream of the mitogen-activated protein kinase (MAPK) cascade that is activated under a variety of stress conditions. MST2 was identified as a kinase that is activated by the proapoptotic agents staurosporine and FAS ligand (MIM 134638) (Taylor et al., 1996 [PubMed 8816758]; Lee et al., 2001 [PubMed 11278283]).[supplied by OMIM]

**Other Designations:** serine/threonine kinase 3 (Ste20, yeast homolog)

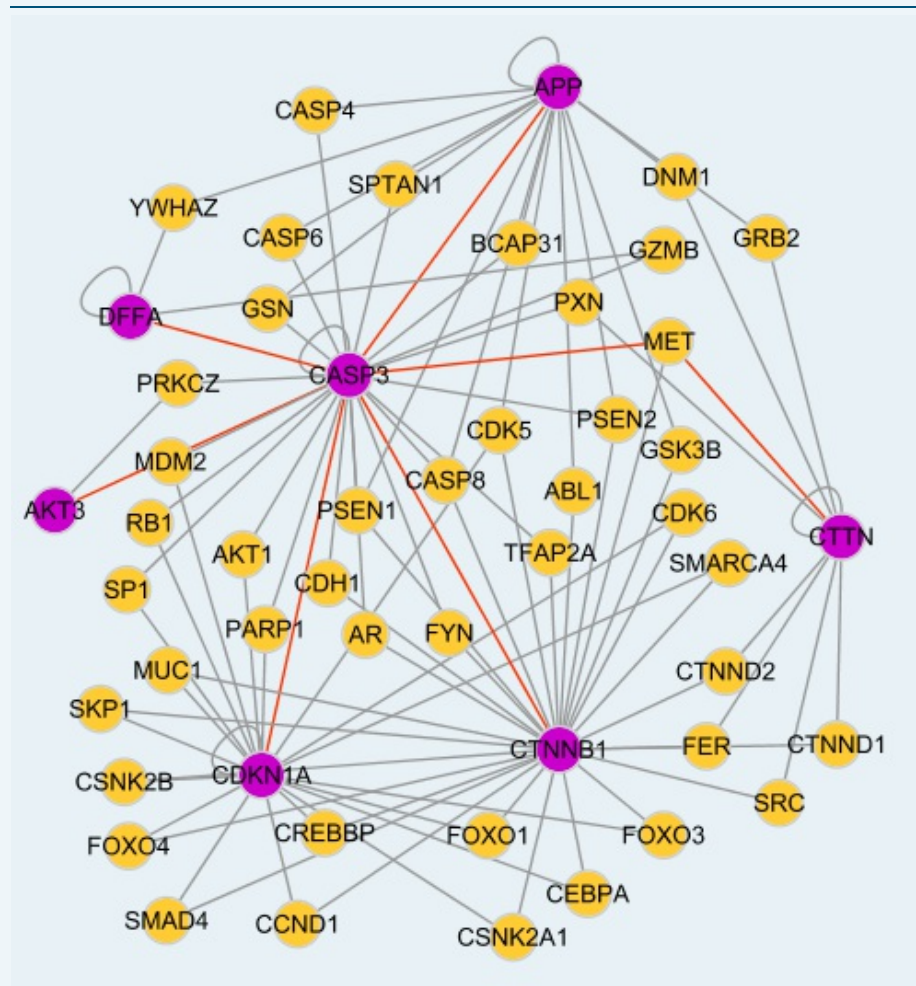
**Gene Information****Entrez GeneID:** [836](#)**Gene Name:** CASP3**Gene Alias:** CPP32, CPP32B, SCA-1**Gene Description:** caspase 3, apoptosis-related cysteine peptidase**Omim ID:** [600636](#)**Gene Ontology:** [Hyperlink](#)

**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

#### Interactome



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