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## AKT1 & NOS3 Protein Protein Interaction Antibody Pair

Catalog # : DI0258

規格 : [ 1 Set ]

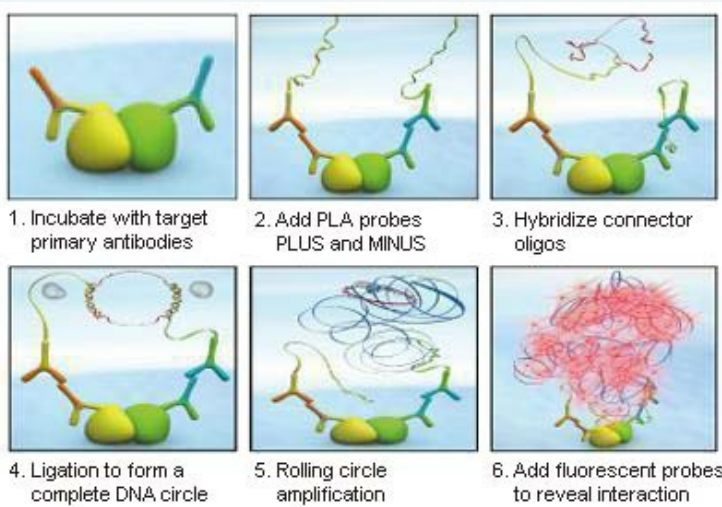
[List All](#)

### Specification

**Product Description:** This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the AKT1 protein, and the other against the NOS3 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

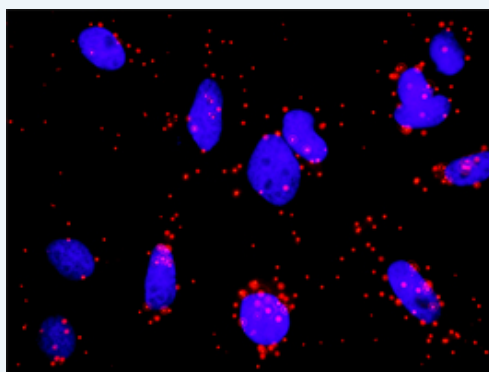
### Application Image

*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 AKT1 and NOS3. HeLa cells were stained with anti-AKT1 rabbit purified polyclonal antibody 1:1200 and anti-NOS3 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. AKT1 rabbit purified polyclonal antibody (20 ug)  
 2. NOS3 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)**[AKT1](#) [NOS3](#)**Gene Information****Entrez GeneID:** [207](#)**Gene Name:** AKT1**Gene Alias:** AKT,MGC99656,PKB,PKB-ALPHA,PRKBA,RAC,RAC-ALPHA**Gene Description:** v-akt murine thymoma viral oncogene homolog 1**Omim ID:** [164730](#), [181500](#)**Gene Ontology:** [Hyperlink](#)

**Gene Summary:** The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq]

**Other Designations:** RAC-alpha serine/threonine-protein kinase,murine thymoma viral (v-akt) oncogene homolog-1,protein kinase B,rac protein kinase alpha

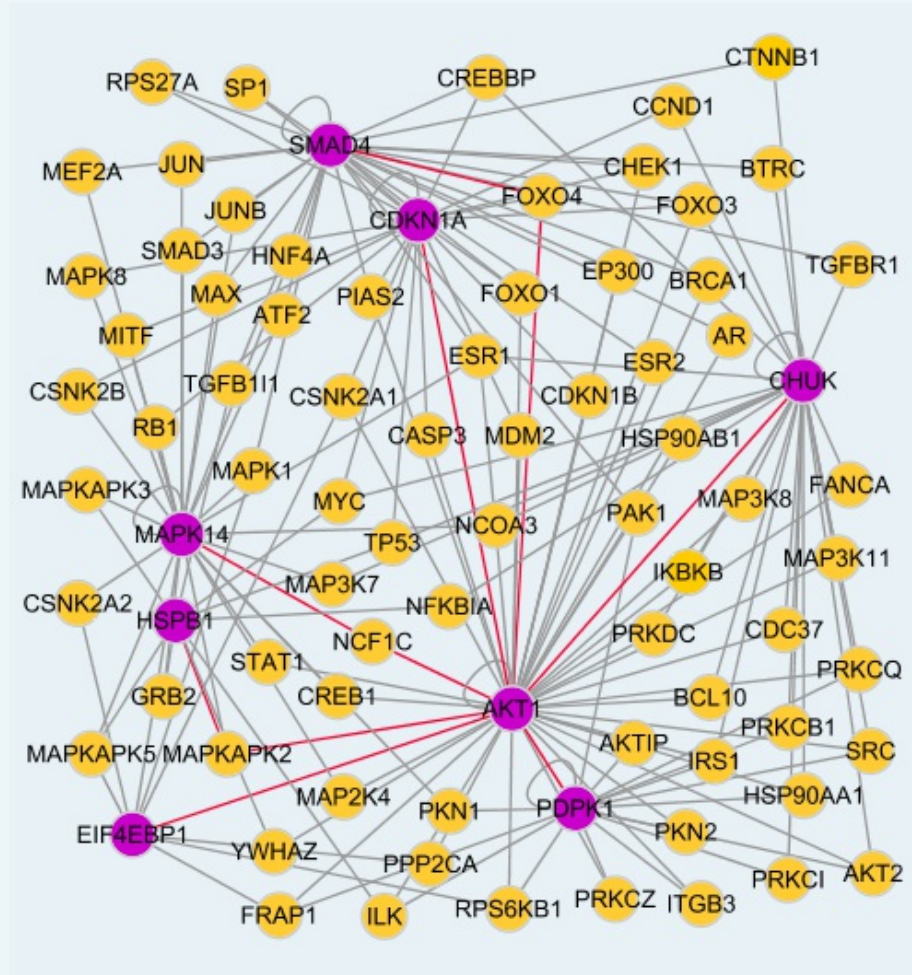
**Gene Information****Entrez GeneID:** [4846](#)**Gene Name:** NOS3**Gene Alias:** ECNOS,eNOS**Gene Description:** nitric oxide synthase 3 (endothelial cell)**Omim ID:** [104300](#), [145500](#), [163729](#), [189800](#)**Gene Ontology:** [Hyperlink](#)

**Gene Summary:** Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and

antitumoral activities. Nitric oxide is synthesized from L-arginine by nitric oxide synthases. Variations in this gene are associated with susceptibility to coronary spasm. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

**Other Designations:** endothelial nitric oxidase synthase, endothelial nitric oxide synthase

#### Interactome



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