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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## AKT1 & BRAF Protein Protein Interaction Antibody Pair

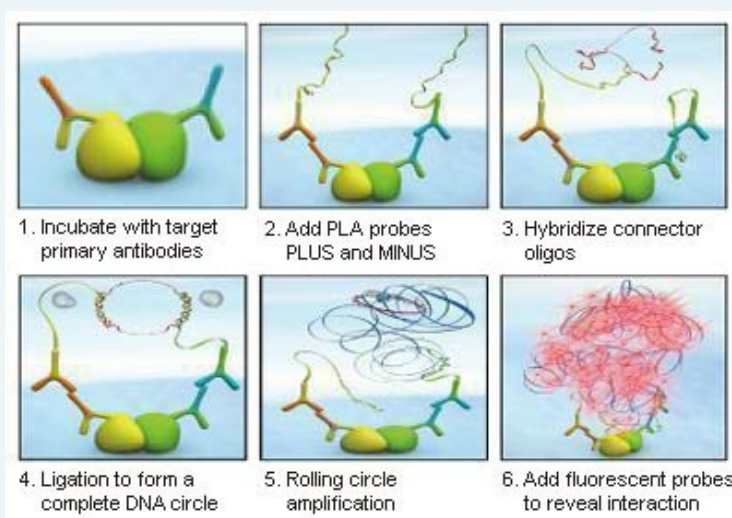
Catalog # : DI0239

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 BRAF protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

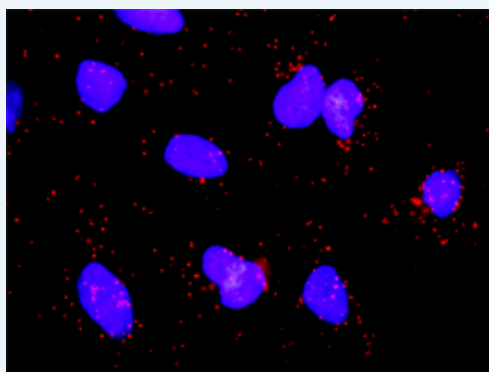


### Application Image

*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 BRAF. HeLa cells were stained with anti-AKT1 rabbit purified polyclonal antibody 1:1200 and anti-BRAF 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. BRAF 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)

[AKT1](#) [BRAF](#)

## 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: [673](#)

Gene Name: BRAF

Gene Alias: B-RAF1,BRAF1,FLJ95109,MGC126806,MGC138284,RAFB1

Gene Description: v-raf murine sarcoma viral oncogene homolog B1

Omim ID: [115150](#), [164757](#), [211980](#)

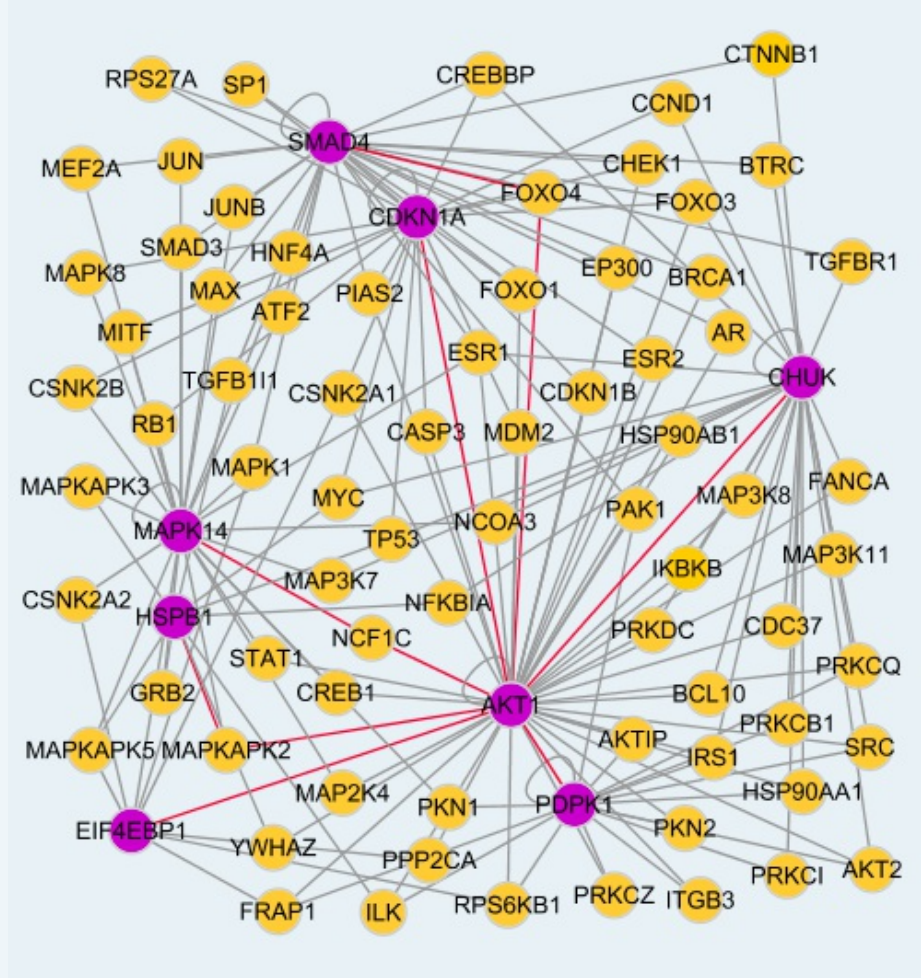
Gene Ontology: [Hyperlink](#)

**Gene Summary:** This gene encodes a protein belonging to the raf/mil family of serine/threonine protein kinases. This protein plays a role in regulating

the MAP kinase/ERKs signaling pathway, which affects cell division, differentiation, and secretion. Mutations in this gene are associated with cardiofaciocutaneous syndrome, a disease characterized by heart defects, mental retardation and a distinctive facial appearance. Mutations in this gene have also been associated with various cancers, including non-Hodgkin lymphoma, colorectal cancer, malignant melanoma, thyroid carcinoma, non-small cell lung carcinoma, and adenocarcinoma of lung. A pseudogene, which is located on chromosome X, has been identified for this gene. [provided by RefSeq

**Other Designations:** 94 kDa B-raf protein,B-Raf proto-oncogene serine/threonine-protein kinase (p94),Murine sarcoma viral (v-raf) oncogene homolog B1

**Interactome**



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