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AKT1 & FOXO1 Protein Protein Interaction Antibody Pair

Catalog # : DI0288

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 FOXO1 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

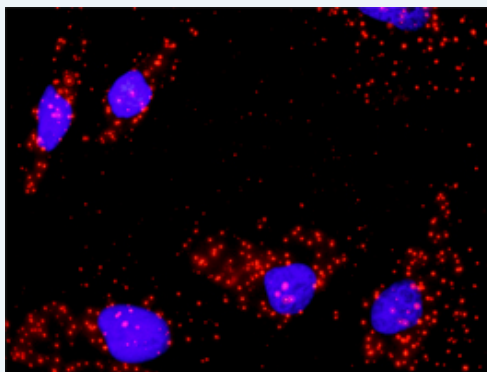
Application Image

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 FOXO1. HeLa cells were stained with anti-AKT1 rabbit purified polyclonal antibody 1:1200 and anti-FOXO1 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. FOXO1 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](#) [FOXO1](#)

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: [2308](#)

Gene Name: FOXO1

Gene Alias: FKH1,FKHR,FOXO1A

Gene Description: forkhead box O1

Omim ID: [136533](#), [268220](#)

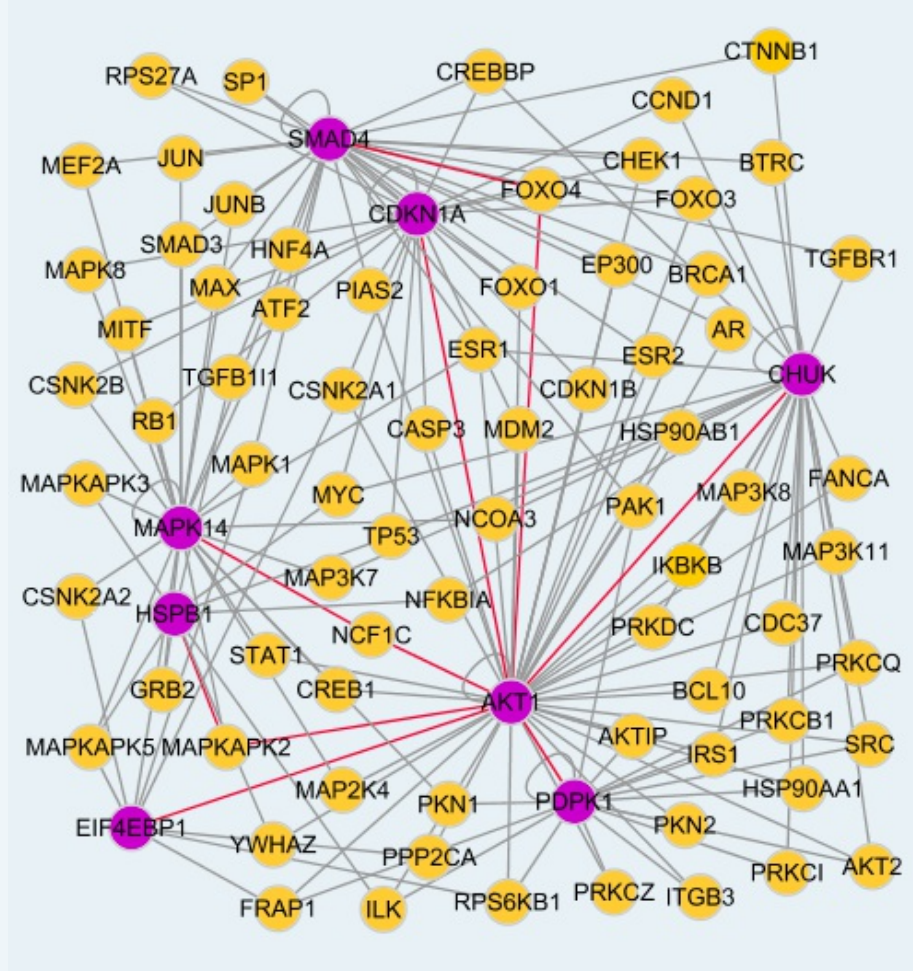
Gene Ontology: [Hyperlink](#)

Gene Summary: This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. The specific function of

this gene has not yet been determined; however, it may play a role in myogenic growth and differentiation. Translocation of this gene with PAX3 has been associated with alveolar rhabdomyosarcoma. [provided by RefSeq]

Other Designations: OTTHUMP00000018301, forkhead box O1A (rhabdomyosarcoma), forkhead homolog in rhabdomyosarcoma, forkhead, Drosophila, homolog of, in rhabdomyosarcoma

Interactome



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