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IKBKB & FOXO3 Protein Protein Interaction Antibody Pair

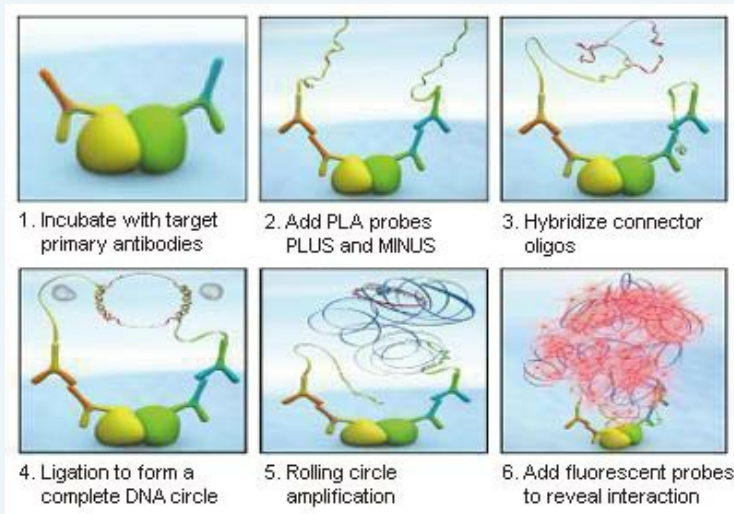
Catalog # : DI0210

規格 : [1 Set]

List All

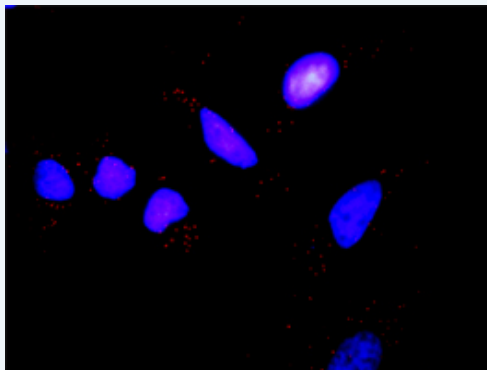
Specification

Product Description: This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the IKBKB protein, and the other against the FOXO3 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.



Reactivity: Human

Quality Control Testing: Protein protein interaction immunofluorescence result.



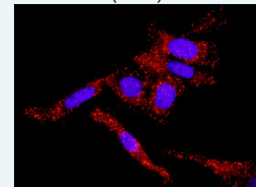
Representative image of Proximity Ligation Assay of protein-protein interactions between IKBKB and FOXO3. HeLa cells were stained with anti-IBKKB rabbit purified polyclonal antibody 1:1200 and anti-FOXO3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction 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. IKBKB rabbit purified polyclonal antibody (20 ug)
 2. FOXO3 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 -

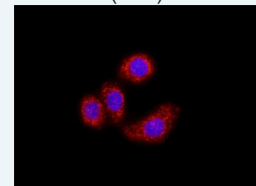
Application Image

In situ Proximity Ligation Assay (Cell)



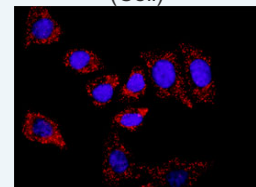
[enlarge](#)

In situ Proximity Ligation Assay (Cell)



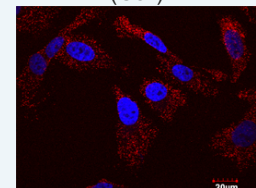
[enlarge](#)

In situ Proximity Ligation Assay (Cell)



[enlarge](#)

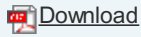
In situ Proximity Ligation Assay (Cell)



[enlarge](#)

20°C storage immediately after use.

MSDS:

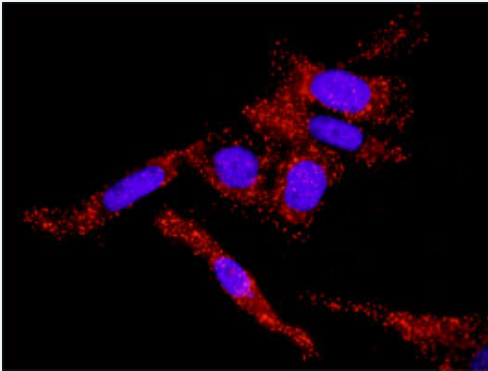


Publication Reference

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]

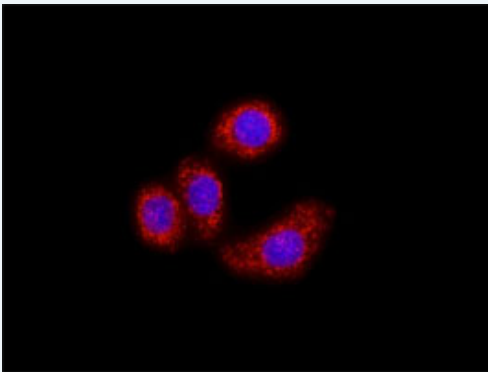
Applications

In situ Proximity Ligation Assay (Cell)



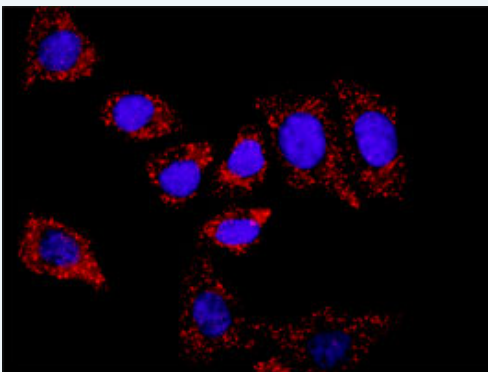
Representative image of Proximity Ligation Assay of protein-protein interactions between IKBKB and FOXO3. PC-3 cells were stained with anti-*IKBKB* rabbit purified polyclonal antibody 1:100 and anti-FOXO3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

In situ Proximity Ligation Assay (Cell)



Representative image of Proximity Ligation Assay of protein-protein interactions between IKBKB and FOXO3. A-549 cells were stained with anti-*IKBKB* rabbit purified polyclonal antibody 1:100 and anti-FOXO3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

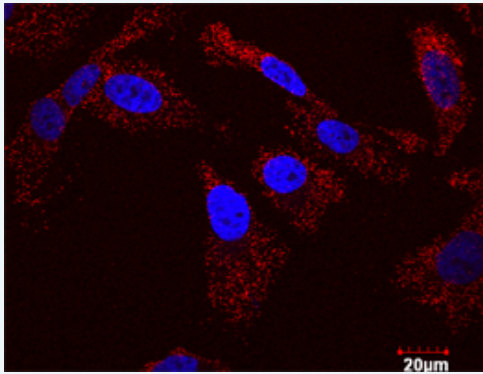
In situ Proximity Ligation Assay (Cell)



Representative image of Proximity Ligation Assay of protein-protein interactions between IKBKB and FOXO3. HT-29 cells were stained with anti-*IKBKB* rabbit purified polyclonal

antibody 1:100 and anti-FOXO3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

***In situ* Proximity Ligation Assay (Cell)**



Confocal microscopy image of Proximity Ligation Assay of protein-protein interactions between IKBKB and FOXO3. PC-3 cells were stained with anti-*IKBKB* rabbit purified polyclonal antibody 1:100 and anti-FOXO3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

[FOXO3](#) [IKBKB](#)

Gene Information

Entrez GeneID: [3551](#)

Gene Name: *IKBKB*

Gene Alias: FLJ40509,IKK-beta,IKK2,IKKB,MGC131801,NFKBIKB

Gene Description: inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta

Omim ID: [603258](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA (MIM 164014), or RELB (MIM 604758) to form the NFKB complex. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA, MIM 164008, or NFKBIB, MIM 604495), which inactivate NF-kappa-B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, MIM 600664, or IKBKB) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B complex. Activated NFKB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime (where H is A, C, or T; R is an A or G purine; and Y is a C or T pyrimidine).[supplied by OMIM]

Other Designations: inhibitor of nuclear factor kappa B kinase beta subunit,nuclear factor NF-kappa-B inhibitor kinase beta

Gene Information

Entrez GeneID: [2309](#)

Gene Name: FOXO3

Gene Alias: AF6q21,DKFZp781A0677,FKHRL1,FKHRL1P2,FOXO2,FOXO3A,MGC12739,MGC31925

Gene forkhead box O3

Description:

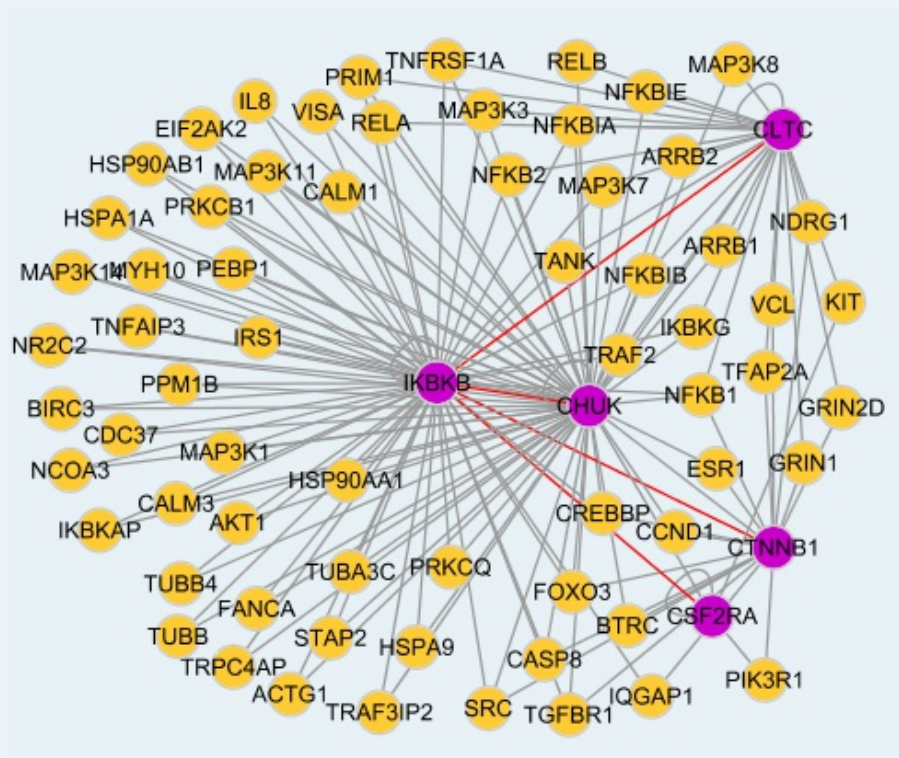
Omim ID: [602681](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. This gene likely functions as a trigger for apoptosis through expression of genes necessary for cell death. Translocation of this gene with the MLL gene is associated with secondary acute leukemia. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq]

Other Designations: OTTHUMP00000016944, forkhead box O3A, forkhead homolog (rhabdomyosarcoma) like 1, forkhead, Drosophila, homolog of, in rhabdomyosarcoma-like 1

Interactome



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