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RICTOR & RPS6KB1 Protein Protein Interaction Antibody Pair

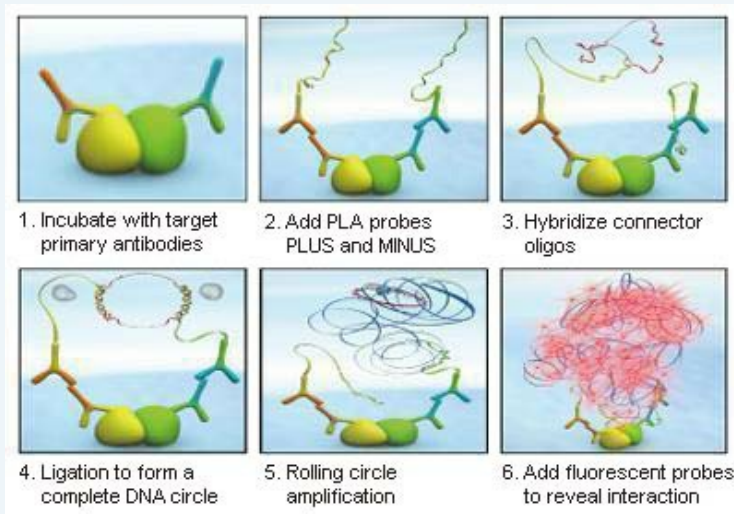
Catalog # : DI0518

規格 : [1 Set]

List All

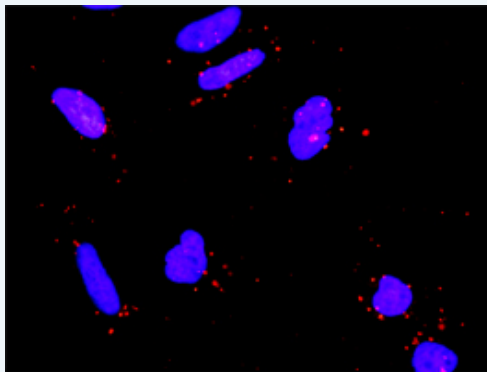
Specification

Product Description: This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the RICTOR protein, and the other against the RPS6KB1 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.



Reactivity: Human

Quality Control Testing: Protein protein interaction immunofluorescence result.



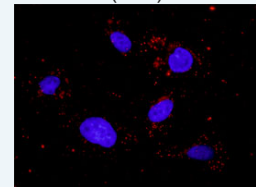
Representative image of Proximity Ligation Assay of protein-protein interactions between RICTOR and RPS6KB1. HeLa cells were stained with anti-RICTOR rabbit purified polyclonal antibody 1:1200 and anti-RPS6KB1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction 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. RICTOR rabbit purified polyclonal antibody (20 ug)
 2. RPS6KB1 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 -

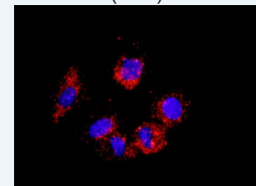
Application Image

In situ Proximity Ligation Assay (Cell)



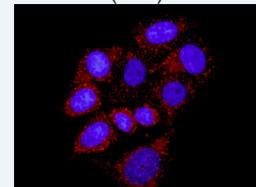
[enlarge](#)

In situ Proximity Ligation Assay (Cell)



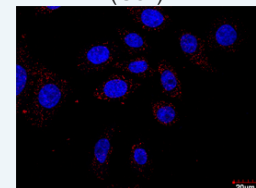
[enlarge](#)

In situ Proximity Ligation Assay (Cell)



[enlarge](#)

In situ Proximity Ligation Assay (Cell)



[enlarge](#)

20°C storage immediately after use.

MSDS:

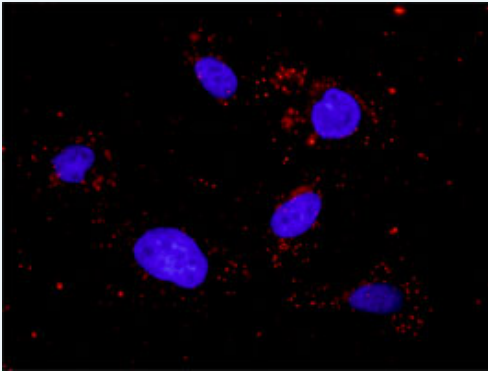
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Publication Reference

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]
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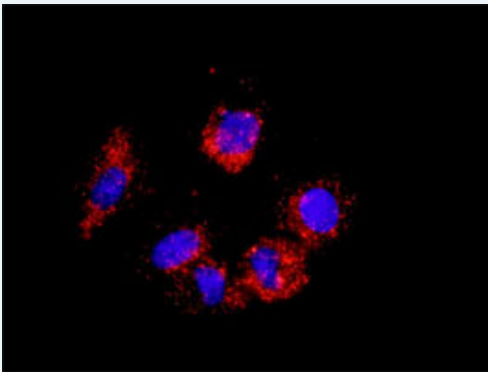
Applications

In situ Proximity Ligation Assay (Cell)



Representative image of Proximity Ligation Assay of protein-protein interactions between RICTOR and RPS6KB1. PC-3 cells were stained with anti-RICTOR rabbit purified polyclonal antibody 1:100 and anti-RPS6KB1 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 RICTOR and RPS6KB1. A-549 cells were stained with anti-RICTOR rabbit purified polyclonal antibody 1:100 and anti-RPS6KB1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

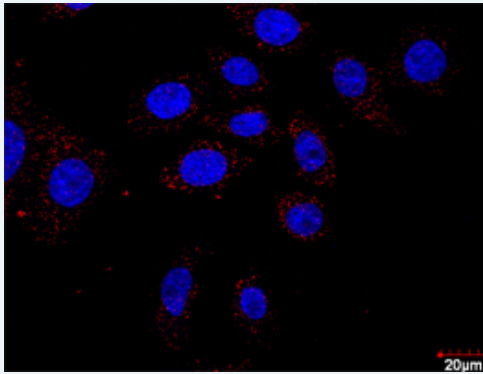
In situ Proximity Ligation Assay (Cell)



Representative image of Proximity Ligation Assay of protein-protein interactions between RICTOR and RPS6KB1. HT-29 cells were stained with anti-RICTOR rabbit purified

polyclonal antibody 1:100 and anti-RPS6KB1 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 RICTOR and RPS6KB1. HT-29 cells were stained with anti-RICTOR rabbit purified polyclonal antibody 1:100 and anti-RPS6KB1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

RPS6KB1 RICTOR

Gene Information

Entrez GeneID: [253260](#)

Gene Name: RICTOR

Gene Alias: DKFZp686B11164,KIAA1999,MGC39830,mAVO3

Gene Description: rapamycin-insensitive companion of mTOR

Omim ID: [609022](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: RICTOR and MTOR (FRAP1; MIM 601231) are components of a protein complex that integrates nutrient- and growth factor-derived signals to regulate cell growth (Sarbassov et al., 2004 [PubMed 15268862]).
[supplied by OMIM]

Other Designations: TORC2-specific protein AVO3,pianissimo

Gene Information

Entrez GeneID: [6198](#)

Gene Name: RPS6KB1

Gene Alias: PS6K,S6K,S6K1,STK14A,p70(S6K)-alpha,p70-S6K,p70-alpha

Gene Description: ribosomal protein S6 kinase, 70kDa, polypeptide 1

Omim ID: [608938](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 non-identical kinase

catalytic domains and phosphorylates several residues of the S6 ribosomal protein. The kinase activity of this protein leads to an increase in protein synthesis and cell proliferation. Amplification of the region of DNA encoding this gene and overexpression of this kinase are seen in some breast cancer cell lines. Alternate translational start sites have been described and alternate transcriptional splice variants have been observed but have not been thoroughly characterized. [provided by RefSeq]

Other Designations: p70 S6 kinase, alpha 1,p70 S6 kinase, alpha 2,ribosomal protein S6 kinase, 70kD, polypeptide 1,serine/threonine kinase 14 alpha

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