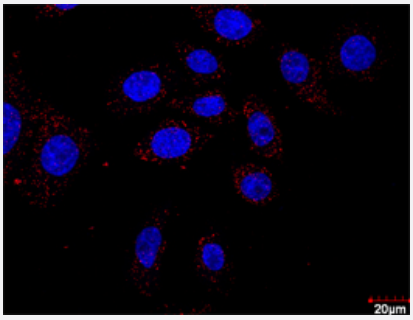
RICTOR & RPS6KB1 Protein Protein Interaction Antibody Pair

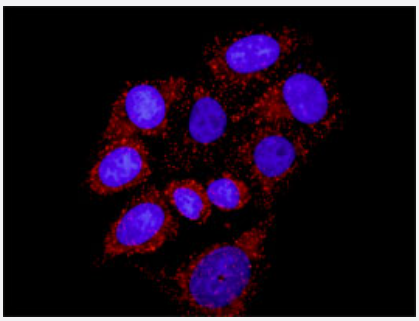
Catalog # DI0518 Size 1 Set

Applications



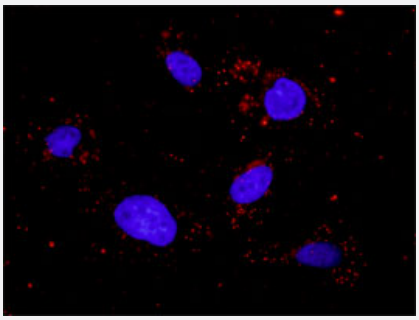
In situ Proximity Ligation Assay (Cell)

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).



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)

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).

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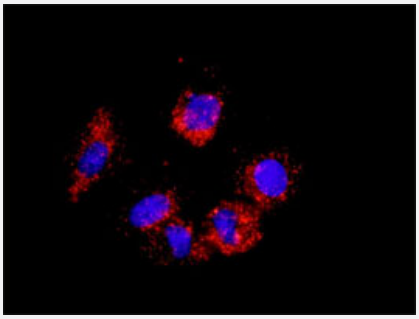
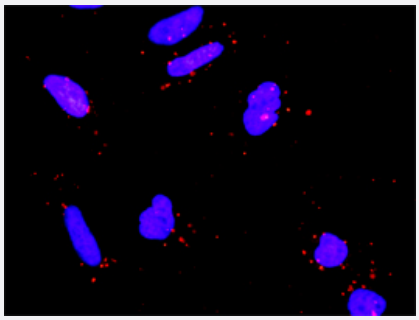


In situ Proximity Ligation Assay (Cell)

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).



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.

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 Products	Antibody pair set content: 1. RICTOR rabbit purified polyclonal antibody (100 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 -20°C storage immediately after use.

Applications

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- *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).

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Gene Info — RPS6KB1

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 kinase s. This kinase contains 2 non-identical kinase catalytic domains and phosphorylates several resid ues 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 overex pression 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 n ot been thoroughly characterized. [provided by RefSeq

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

Gene Info — RICTOR

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

Pathway

- Acute myeloid leukemia
- ErbB signaling pathway
- Fc gamma R-mediated phagocytosis
- Insulin signaling pathway
- mTOR signaling pathway
- mTOR signaling pathway
- TGF-beta signaling pathway

Disease

- Cardiovascular Diseases
- Diabetes Mellitus

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- Edema
- Head and Neck Neoplasms
- Head and Neck Neoplasms
- Neoplasm Recurrence
- Neoplasm Recurrence
- Neoplasms
- Neoplasms

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