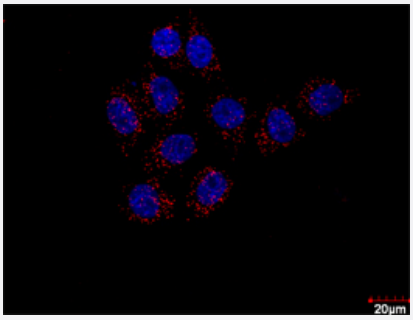
RPS6KA3 & PDPK1 Protein Protein Interaction Antibody Pair

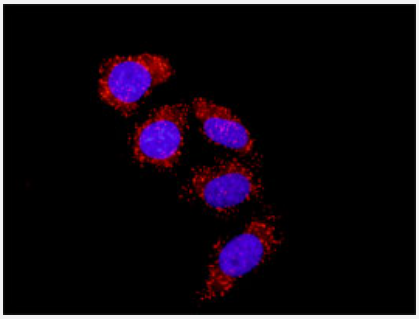
Catalog # DI0623 Size 1 Set

Applications



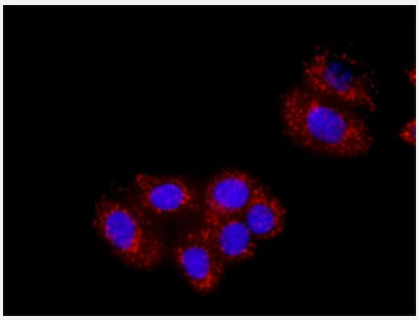
In situ Proximity Ligation Assay (Cell)

Confocal microscopy image of Proximity Ligation Assay of protein-protein interactions between RPS6KA3 and PDPK1. HT-29 cells were stained with anti-RPS6KA3 rabbit purified polyclonal antibody 1:100 and anti-PDPK1 mouse purified polyclonal 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 RPS6KA3 and PDPK1. HT-29 cells were stained with anti-RPS6KA3 rabbit purified polyclonal antibody 1:100 and anti-PDPK1 mouse purified polyclonal 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 RPS6KA3 and PDPK1. A-549 cells were stained with anti-RPS6KA3 rabbit purified polyclonal antibody 1:100 and anti-PDPK1 mouse purified polyclonal 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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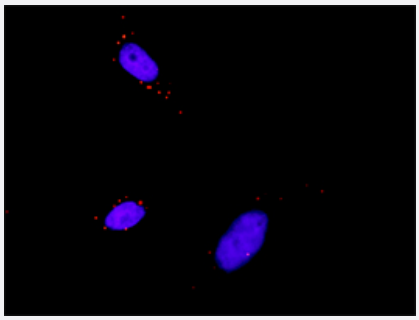

Representative image of Proximity Ligation Assay of protein-protein interactions between RPS6KA3 and PDPK1. HeLa cells were stained with anti-RPS6KA3 rabbit purified polyclonal antibody 1:1200 and anti-PDPK1 mouse purified polyclonal antibody 1:50. Each red dot represents the detection of protein-protein 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 RPS6KA3 protein, and the other against the PDPK1 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 RPS6KA3 and PDPK1. HeLa cells were stained with anti-RPS6KA3 rabbit purified polyclonal antibody 1:1200 and anti-PDPK1 mouse purified polyclonal 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. RPS6KA3 rabbit purified polyclonal antibody (100 ug) 2. PDPK1 mouse purified polyclonal 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

- *In situ* Proximity Ligation Assay (Cell)

  Confocal microscopy image of Proximity Ligation Assay of protein-protein interactions between RPS6KA3 and PDPK1. HT-29 cells were stained with anti-RPS6KA3 rabbit purified polyclonal antibody 1:100 and anti-PDPK1 mouse purified polyclonal 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 RPS6KA3 and PDPK1. A-549 cells were stained with anti-RPS6KA3 rabbit purified polyclonal antibody 1:100 and anti-PDPK1 mouse purified polyclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Gene Info — PDPK1

Entrez GeneID	5170
Gene Name	PDPK1
Gene Alias	MGC20087, MGC35290, PDK1, PRO0461
Gene Description	3-phosphoinositide dependent protein kinase-1
Omim ID	605213
Gene Ontology	Hyperlink
Other Designations	PkB kinase like gene 1|PkB-like 1|protein kinase

Gene Info — RPS6KA3

Entrez GeneID	6197
Gene Name	RPS6KA3
Gene Alias	CLS, HU-3, ISPK-1, MAPKAPK1B, MRX19, RSK, RSK2, S6K-alpha3, p90-RSK2, pp90RSK2
Gene Description	ribosomal protein S6 kinase, 90kDa, polypeptide 3
Omim ID	300075 303600
Gene Ontology	Hyperlink

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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 various subst rates, including members of the mitogen-activated kinase (MAPK) signalling pathway. The activity of this protein has been implicated in controlling cell growth and differentiation. Mutations in this g ene have been associated with Coffin-Lowry syndrome (CLS). [provided by RefSeq
Other Designations	OTTHUMP00000023036|insulin-stimulated protein kinase 1|mental retardation, X-linked 19|ribos omal protein S6 kinase, 90kD, polypeptide 3

Pathway

- Endometrial cancer
- Focal adhesion
- Insulin signaling pathway
- Long-term potentiation
- MAPK signaling pathway
- mTOR signaling pathway
- mTOR signaling pathway
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- PPAR signaling pathway
- Prostate cancer

Disease

- Adenocarcinoma
- Head and Neck Neoplasms
- Neoplasm Recurrence
- Neoplasms
- Thyroid Neoplasms

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