PRKCZ & AKT3 Protein Protein Interaction Antibody Pair

Catalog # DI0048 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between PRKCZ and AKT3. HeLa cells were stained with anti-PRKCZ rabbit purified polyclonal antibody 1:1200 and anti-AKT3 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-prot ein interaction, one against the PRKCZ protein, and the other against the AKT3 protein for use in <u>in s</u> <u>itu Proximity Ligation Assay</u> . <u>See Publication Reference below</u> .
Reactivity	Human
Quality Control Testing	Protein protein interaction immunofluorescence result. Representative image of Proximity Ligation Assay of protein-protein interactions between PRKCZ a nd AKT3. HeLa cells were stained with anti-PRKCZ rabbit purified polyclonal antibody 1:1200 and a nti-AKT3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein i nteraction complex. The images were analyzed using an optimized freeware (BlobFinder) download f rom The Centre for Image Analysis at Uppsala University.
Supplied Product	Antibody pair set content: 1. PRKCZ rabbit purified polyclonal antibody (100 ug) 2. AKT3 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 tha w cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

• In situ Proximity Ligation Assay (Cell)

Gene Info — PRKCZ	
Entrez GenelD	<u>5590</u>
Gene Name	PRKCZ
Gene Alias	PKC-ZETA, PKC2
Gene Description	protein kinase C, zeta
Omim ID	<u>176982</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	Protein kinase C (PKC) zeta is a member of the PKC family of serine/threonine kinases which ar e involved in a variety of cellular processes such as proliferation, differentiation and secretion. Unli ke the classical PKC isoenzymes which are calcium-dependent, PKC zeta exhibits a kinase activ ity which is independent of calcium and diacylglycerol but not of phosphatidylserine. Furthermore, it is insensitive to typical PKC inhibitors and cannot be activated by phorbol ester. Unlike the clas sical PKC isoenzymes, it has only a single zinc finger module. These structural and biochemical p roperties indicate that the zeta subspecies is related to, but distinct from other isoenzymes of PK C. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq
Other Designations	OTTHUMP00000001368 OTTHUMP00000044160

Gene Info — AKT3	
Entrez GenelD	10000
Gene Name	AKT3
Gene Alias	DKFZp434N0250, PKB-GAMMA, PKBG, PRKBG, RAC-PK-gamma, RAC-gamma, STK-2
Gene Description	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
Omim ID	<u>611223</u>
Gene Ontology	<u>Hyperlink</u>

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Gene Summary	The protein encoded by this gene is a member of the AKT, also called PKB, serine/threonine prot ein kinase family. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell prolif eration, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose upta ke. This kinase has been shown to be stimulated by platelet-derived growth factor (PDGF), insulin , and insulin-like growth factor 1 (IGF1). Alternatively splice transcript variants encoding distinct is oforms have been described. [provided by RefSeq
Other Designations	OTTHUMP00000037911 OTTHUMP00000037912 RAC-gamma serine/threonine protein kinase protein kinase B gamma serine threonine protein kinase, Akt-3 v-akt murine thymoma viral oncog ene homolog 3

Pathway

- <u>Acute myeloid leukemia</u>
- <u>Adipocytokine signaling pathway</u>
- Apoptosis
- <u>B cell receptor signaling pathway</u>
- Chemokine signaling pathway
- <u>Chemokine signaling pathway</u>
- <u>Chronic myeloid leukemia</u>
- Colorectal cancer
- Endocytosis
- Endometrial cancer
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Glioma
- Insulin signaling pathway
- Insulin signaling pathway
- Jak-STAT signaling pathway

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- <u>MAPK signaling pathway</u>
- <u>Melanoma</u>
- mTOR signaling pathway
- Neurotrophin signaling pathway
- <u>Non-small cell lung cancer</u>
- Pancreatic cancer
- Pathways in cancer
- Prostate cancer
- Renal cell carcinoma
- Small cell lung cancer
- <u>T cell receptor signaling pathway</u>
- Tight junction
- Tight junction
- <u>Toll-like receptor signaling pathway</u>
- Type II diabetes mellitus
- VEGF signaling pathway

Disease

- <u>Adenocarcinoma</u>
- <u>Cardiovascular Diseases</u>
- <u>Cardiovascular Diseases</u>
- Diabetes Mellitus
- Diabetes Mellitus
- Edema
- Edema
- Genetic Predisposition to Disease

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- Genetic Predisposition to Disease
- HIV Infections
- <u>Multiple Sclerosis</u>
- Thyroid Neoplasms
- Urinary Bladder Neoplasms