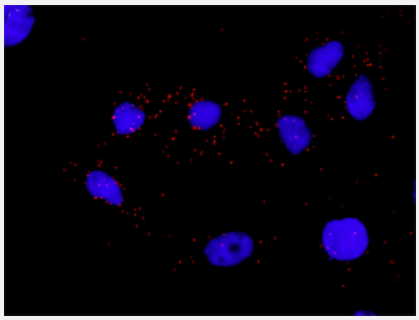
PRKDC(phospho S2612) & PRKDC Protein Phosphorylation Antibody Pair

Catalog # DP0071 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal antibody 1:50. Each red dot represents one single phosphorylated protein. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Specification

Product Description	This protein phosphorylation antibody pair set comes with two antibodies, one against the PRKDC p rotein, and the other against the specific S2612 phosphorylated site of PRKDC for use in *in situ* Prox imity Ligation Assay. See Publication Reference below.
Reactivity	Human
Quality Control Testing	Dual recognition immunofluorescence result. Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were staine d with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal a ntibody 1:50. Each red dot represents one single phosphorylated protein. 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. Phospho-PRKDC S2612 rabbit polyclonal antibody (20 ul) In PBS (0.09% (w/v) sodium azide) 2. PRKDC mouse monoclonal antibody (40 ug) In 1x PBS, pH 7.2 *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.

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Applications

- *In situ* Proximity Ligation Assay (Cell)

Gene Info — PRKDC

Entrez GeneID	5591
Gene Name	PRKDC
Gene Alias	DNA-PKcs, DNAPK, DNPK1, HYRC, HYRC1, XRCC7, p350
Gene Description	protein kinase, DNA-activated, catalytic polypeptide
Omim ID	600899
Gene Ontology	Hyperlink
Gene Summary	The PRKDC gene encodes the catalytic subunit of a nuclear DNA-dependent serine/threonine pr otein kinase (DNA-PK). The second component is the autoimmune antigen Ku (MIM 152690), whi ch is encoded by the G22P1 gene on chromosome 22q. On its own, the catalytic subunit of DNA-PK is inactive and relies on the G22P1 component to direct it to the DNA and trigger its kinase ac tivity; PRKDC must be bound to DNA to express its catalytic properties.[supplied by OMIM
Other Designations	hyper-radiosensitivity of murine scid mutation, complementing 1

Pathway

- Cell cycle
- Non-homologous end-joining

Disease

- Adenocarcinoma
- Ataxia telangiectasia
- Bone Neoplasms
- Brain Neoplasms
- Breast cancer

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- Breast Neoplasms
- Carcinoma
- Central Nervous System Neoplasms
- DNA Damage
- Genetic Predisposition to Disease
- Glioma
- Head and Neck Neoplasms
- Hematologic Diseases
- Hodgkin Disease
- Kidney Neoplasms
- Lung Neoplasms
- Lymphoma
- Lymphoproliferative Disorders
- Multiple Sclerosis
- Neoplasms
- Occupational Diseases
- Prostate cancer
- Prostatic Neoplasms
- Thyroid Neoplasms
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome

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