

Human, Mouse DNA-PK ELISA Kit | PRKDC elisa kit

DNA-PK (Phospho-Ser2056) Phospho Sandwich ELISA Kit

CATALOG #
AAA318635

REACTIVITY
Human, Mouse

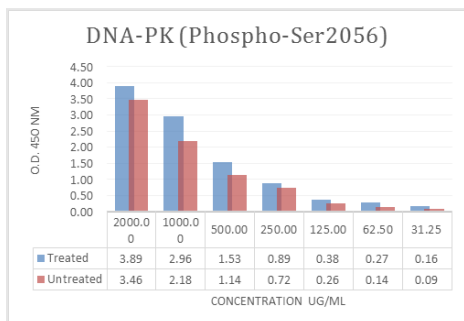
PRODUCT SYNONYMS

DNA-PK; DNA-PK (Phospho-Ser2056) Phospho Sandwich ELISA Kit; DNA- PKcs; DNA-dependent protein kinase catalytic subunit; DNPK1; P460; PRKD; PRKDC; XRCC7; kinase DNA-PK; PRKDC elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse
Specificity	The DNA-PK (Phospho-Ser2056) Phospho Sandwich ELISA Kit is a convenient, lysate- free, high throughput and sensitive assay kit that can detect DNA-PK protein phosphorylation and expression profile in cell lysates. The kit can be used for measuring the relative amounts of phosphorylated DNA-PK in cultured cells as well as screening for the effects that various treatments, inhibitors (ie. siRNA or chemicals), or activators have on DNA-PK phosphorylation.
Sequence Length	4097
Assay Type	Quantitative Sandwich
Preparation and Storage	Store entire kit at 4 degree C until use. Kit expiration is 3 months from date of shipment.

IMAGES



Application Data

Jurkat cells were grown to 90% confluency and were stimulated with U.V. 150 J/s and incubated for 1 hr. Cells were immediately lysed thereafter and measured for Total Protein Concentration and O.D. 450 nm of DNA-PK P-Ser2056 versus untreated Jurkat lysates.

ADDITIONAL INFORMATION

Related Product Information for PRKDC elisa kit	Principle of the Assay: The Phospho Sandwich DNA-PK (Phospho-Ser2056) ELISA Kit contains the components necessary for semi-quantitative determination of DNA-PK (Phospho-Ser2056) concentrations within experimental cell lysate samples. This particular immunoassay utilizes the traditional "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope DNA-PK (Phospho-Ser2056) while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a colorimetric reaction to ensue upon substrate addition. When the substrate TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added, the reaction catalyzed by peroxidase yields a blue color that is representative of the antigen concentration. Upon sufficient color development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric Acid) where the color of the solution will turn yellow. The absorbance of each well can then be read by a spectrophotometer where data analysis may begin.
Product Categories/Family for PRKDC elisa kit	Phospho Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	126032350
NCBI GeneID	5591
NCBI Accession #	NP_001075109.1
NCBI GenBank Nucleotide #	NP_001075109.1
UniProt Accession #	P78527
NCBI Official Full Name	DNA-dependent protein kinase catalytic subunit isoform 2
NCBI Official Synonym Full Names	protein kinase, DNA-activated, catalytic subunit
NCBI Official Symbol	PRKDC
NCBI Official Synonym Symbols	HYRC; p350; DNAPK; DNPk1; HYRC1; IMD26; XRCC7; DNAPKc; DNA-PKC; DNA-PKcs
NCBI Protein Information	DNA-dependent protein kinase catalytic subunit
UniProt Protein Name	DNA-dependent protein kinase catalytic subunit
UniProt Gene Name	PRKDC
UniProt Synonym Gene Names	HYRC; HYRC1; DNA-PK catalytic subunit; DNA-PKcs
UniProt Entry Name	PRKDC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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