

DNA-PK Polyclonal Antibody

CATALOG #:	3130-100
AMOUNT:	100 µg
LOT #:	_____
HOST:	Rabbit
IMMUNOGEN:	Synthetic peptide corresponding to residues surrounding amino acid 4088 of human DNA-PK.
SPECIES REACTIVITY:	human, mouse, rat, hamster

FORMULATION:

100 µg (0.5 mg/ml) immunoaffinity purified rabbit anti-DNA-PK polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

STORAGE CONDITIONS:

Store at -20°C. For optimal storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

BACKGROUND DESCRIPTION:

DNA-dependent protein kinase (DNA-PK) is made up of 3 subunits, 2 Ku proteins and a large catalytic subunit (DNA-PKcs). DNA-PKcs falls into the phosphatidylinositol 3-kinase superfamily although it does not have serine/threonine protein kinase activity. This subunit migrates on SDS-PAGE gels as an intact and smaller processed form. *In vitro*, DNA-PK phosphorylates several transcription factors and other DNA-binding proteins and is believed to play a role in DNA damage recognition, repair and transcription. There is evidence to suggest that DNA-PKcs may be a critical target for proteolysis by a caspase in apoptosis.

SPECIFICITY:

The immunoaffinity-purified antibody detects a >350,000 kDa and a 180,000 kDa protein (believed to be a processed form of the catalytic subunit), corresponding to the expected molecular weight of DNA-PKcs, in samples from human, mouse, rat and hamster origins.

APPLICATION AND USAGE:

The antibody can be used for Western blot analysis (0.5-4 µg/ml). However, the optimal conditions should be determined individually. HeLa cell lysate can be used as a positive control.

NOTE: For Research use only! Not to be used in humans.

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies