

# Anti-DNA-PK Antibody

11/19

CATALOG NO.: A1977-100

**BACKGROUND DESCRIPTION:** This gene encodes the catalytic subunit of the DNA-dependent protein kinase (DNA-PK). It functions with the Ku70/Ku80 heterodimer protein in DNA double strand break repair and recombination. The protein encoded is a member of the PI3/PI4-kinase family.

**ALTERNATE NAMES:** DNA-dependent protein kinase catalytic subunit, DNA-PK catalytic subunit, DNA-PKcs, DNPk1, p460, PRKDC, HYRC, HYRC1

**ANTIBODY TYPE:** Polyclonal

**HOST/ISOTYPE:** Rabbit / IgG

**IMMUNOGEN:** KLH-conjugated synthetic peptide targeting a sequence in the C-terminal region of human DNA-PK

**MOLECULAR WEIGHT:** 469kDa

**PURIFICATION:** Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS

**FORM:** Liquid

**SIZE:** 100  $\mu$ l

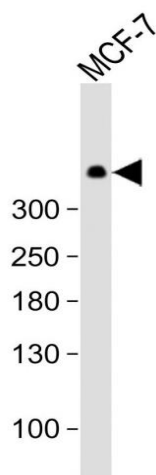
**FORMULATION:** In PBS with 0.09% (W/V) sodium azide

**SPECIES REACTIVITY:** Human

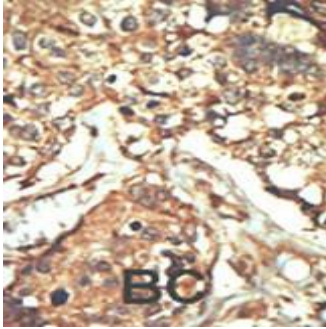
**STORAGE CONDITIONS:** Store at -20°C. Avoid freeze / thaw cycles

**APPLICATIONS AND USAGE:** WB 1:1000, IHC 1:50-100

**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user



Western blot analysis of DNA-PK expression in MCF-7 whole cell lysate. Antibody dilution used was 1:1000. Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Blocking/Dilution buffer: 5% NFD/MTBST.



Immunohistochemical analysis of DNA-PK staining in formalin-fixed and paraffin-embedded human breast cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.

**RELATED PRODUCTS:**

Phospho-c-Myc (Thr58) Antibody (A1266)  
Anti-Histone H2AX Rabbit Monoclonal Antibody (A1143)  
Anti-Ku70 Antibody (A1210)  
Phospho-c-Jun (Ser73) Antibody (3502)

***FOR RESEARCH USE ONLY! Not to be used on humans.***