

## Ku-86 Polyclonal Antibody

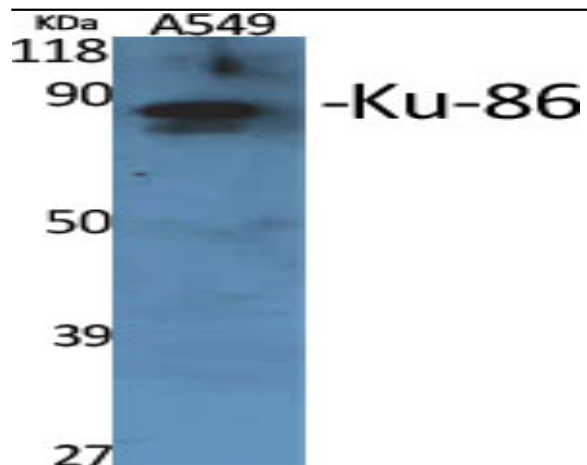
|                              |   |
|------------------------------|---|
| <b>Catalog No :</b>          | YT2504  |
| <b>Reactivity :</b>          | Human;Mouse   |
| <b>Applications :</b>        | WB;IHC;IF;ELISA   |
| <b>Target :</b>              | Ku-86   |
| <b>Fields :</b>              | >>Non-homologous end-joining  |
| <b>Gene Name :</b>           | XRCC5   |
| <b>Protein Name :</b>        | X-ray repair cross-complementing protein 5  |
| <b>Human Gene Id :</b>       | 7520  |
| <b>Human Swiss Prot No :</b> | P13010  |
| <b>Mouse Swiss Prot No :</b> | P27641  |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human XRCC5. AA range:441-490                     |
| <b>Specificity :</b>         | Ku-86 Polyclonal Antibody detects endogenous levels of Ku-86 protein.   |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG  |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200  |
| <b>Purification :</b>        | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| <b>Concentration :</b>       | 1 mg/ml   |
| <b>Storage Stability :</b>   | -15°C to -25°C/1 year(Do not lower than -25°C)  |

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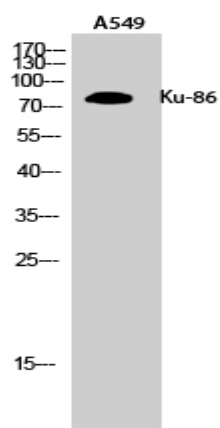
|                               |   |
|-------------------------------|---|
| <b>Observed Band :</b>        | 80kD  |
| <b>Cell Pathway :</b>         | Non-homologous end-joining;   |
| <b>Background :</b>           | <p>The protein encoded by this gene is the 80-kilodalton subunit of the Ku heterodimer protein which is also known as ATP-dependant DNA helicase II or DNA repair protein XRCC5. Ku is the DNA-binding component of the DNA-dependent protein kinase, and it functions together with the DNA ligase IV-XRCC4 complex in the repair of DNA double-strand break by non-homologous end joining and the completion of V(D)J recombination events. This gene functionally complements Chinese hamster xrs-6, a mutant defective in DNA double-strand break repair and in ability to undergo V(D)J recombination. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. [provided by RefSeq, Jul 2008],</p>  |
| <b>Function :</b>             | <p>developmental stage:Expression increases during promyelocyte differentiation.,disease:Individuals with systemic lupus erythematosus (SLE) and related disorders produce extremely large amounts of autoantibodies to p70 and p86.,domain:The EEXXXDDL motif is required for the interaction with catalytic subunit PRKDC and its recruitment to sites of DNA damage.,function:Single stranded DNA-dependent ATP-dependent helicase. Has a role in chromosome translocation. The DNA helicase II complex binds preferentially to fork-like ends of double-stranded DNA in a cell cycle-dependent manner. It works in the 3'-5' direction. Binding to DNA may be mediated by p70. Involved in DNA nonhomologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. The Ku p70/p86 dimer acts as regulatory subunit of the DNA-dependent protein kinase complex DNA-PK by increasing the affinity of t</p> |
| <b>Subcellular Location :</b> | Nucleus . Nucleus, nucleolus . Chromosome .   |
| <b>Expression :</b>           | Cervix carcinoma,Coronary artery,Heart,Neuroblastoma,Osteoblast,Thy   |
| <b>Sort :</b>                 | 9044  |
| <b>No4 :</b>                  | 1   |
| <b>Host :</b>                 | Rabbit  |
| <b>Modifications :</b>        | Unmodified  |

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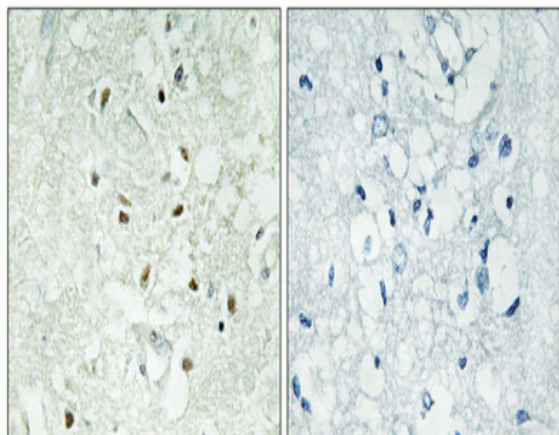
## Products Images



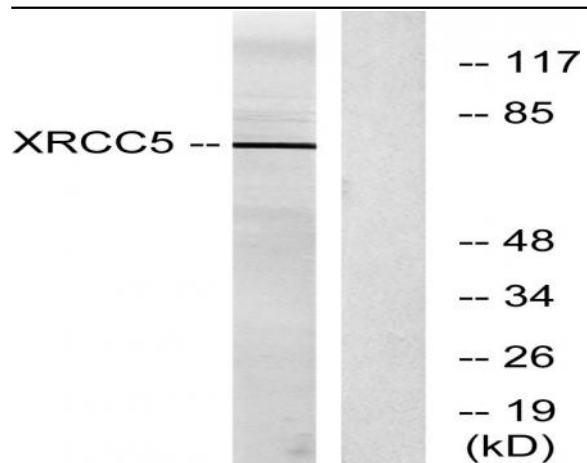
Western Blot analysis of various cells using Ku-86 Polyclonal Antibody



Western Blot analysis of A549 cells using Ku-86 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Western blot analysis of lysates from Jurkat cells, using XRCC5 Antibody. The lane on the right is blocked with the synthesized peptide.