

## Ku-80 Polyclonal Antibody

### Description

|                                |   |
|--------------------------------|---|
| <b>Product type</b>            | Primary Antibody  |
| <b>Code</b>                    | BT-AP04901  |
| <b>Host</b>                    | Rabbit  |
| <b>Isotype</b>                 | IgG   |
| <b>Size</b>                    | 20ul, 50ul, 100ul   |
| <b>Immunogen</b>               | The antiserum was produced against synthesized peptide derived from human Ku80. AA range:683-732  |
| <b>Mol wt</b>                  | 82705   |
| <b>Species reactivity</b>      | Human, Monkey   |
| <b>Clonality</b>               | Polyclonal  |
| <b>Recommended application</b> | WB, IHC-p, IF, ELISA  |
| <b>Concentration</b>           | 1 mg/ml   |
| <b>Full name</b>               | Ku-80 Antibody  |
| <b>Synonyms</b>                | XRCC5; G22P2; X-ray repair cross-complementing protein 5; 86 kDa subunit of Ku antigen; ATP-dependent DNA helicase 2 subunit 2; ATP-dependent DNA helicase II 80 kDa subunit; CTC box-binding factor 85 |

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

X-ray repair cross-complementing protein 5 encoded by XRCC5 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. XRCC5 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 XRCC5 is associated with cancer in patients of varying radiosensitivity.

### Recommended Dilution

WB: 1: 500 - 1: 2000

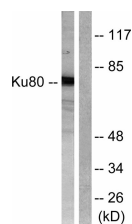
IHC: 1: 100 - 1: 300

IF: 1: 200 - 1: 1000

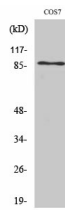
ELISA: 1: 5000

Not yet tested in other applications.

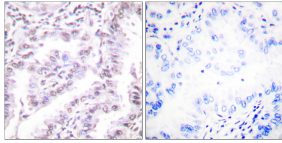
### Images



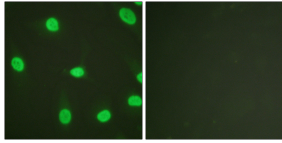
Western blot analysis of lysates from COS7 cells, using Ku80 Antibody. The lane on the right is blocked with the synthesized peptide.



### Western Blot analysis of various cells using Ku-80 Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using Ku80 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunofluorescence analysis of HeLa cells, using Ku80 Antibody. The picture on the right is blocked with the synthesized peptide.

### Storage

-20°C for one year

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