

# Ku-80 rabbit pAb

Cat No.:ES2683

For research use only

## Overview

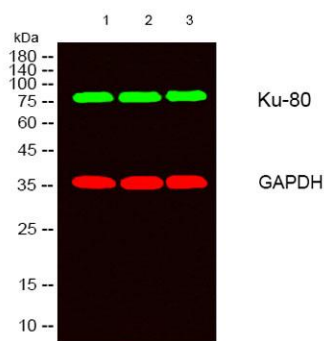
|                          |  |
|--------------------------|--|
| Product Name             | Ku-80 rabbit pAb   |
| Host species             | Rabbit   |
| Applications             | WB;IHC;IF;ELISA  |
| Species Cross-Reactivity | Human;Monkey   |
| Recommended dilutions    | Western Blot: 1/500 - 1/2000.<br>Immunohistochemistry: 1/100 - 1/300.<br>Immunofluorescence: 1/200 - 1/1000. ELISA:<br>1/20000. Not yet tested in other applications.  |
| Immunogen                | The antiserum was produced against synthesized peptide derived from human Ku70/80. AA range:683-732  |
| Specificity              | Ku-80 Polyclonal Antibody detects endogenous levels of Ku-80 protein.  |
| Formulation              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| Storage                  | Store at -20°C. Avoid repeated freeze-thaw cycles.   |
| Protein Name             | X-ray repair cross-complementing protein 5   |
| Gene Name                | XRCC5  |
| Cellular localization    | Nucleus . Nucleus, nucleolus . Chromosome .  |
| Purification             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| Clonality                | Polyclonal   |
| Concentration            | 1 mg/ml  |
| Observed band            | 80kD   |
| Human Gene ID            | 7520   |
| Human Swiss-Prot Number  | P13010   |
| Alternative Names        | 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 kDa subunit; CTC85; CTCBF; DNA repair pr |



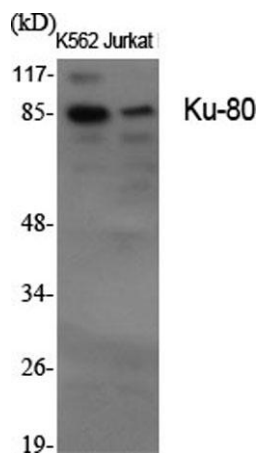


## Background

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],



Western blot analysis of lysates from 1) K562, 2) Jurkat, 3) COS7 cells, (Green) primary antibody was diluted at 1:1000, 4° over night, secondary antibody (cat:RS23920) was diluted at 1:10000, 37° 1 hour. (Red) GAPDH Monoclonal Antibody(2B8) (cat:YM3029) anti



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



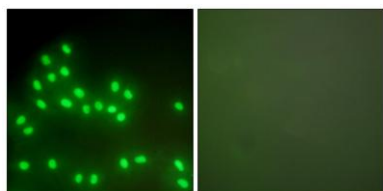


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Western Blot analysis of COS7 cells using Ku-80 Polyclonal Antibody

Immunofluorescence analysis of A549 cells, using Ku70/80 Antibody. The picture on the right is blocked with the synthesized peptide.



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