

## Ku-80 Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP04902
<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 Ku70/80. 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

The protein encoded by XRCC5 (X-ray repair cross complementing 5) 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

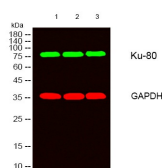
IHC: 1: 100 - 1: 300

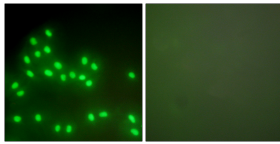
IF: 1: 200 - 1: 1000

ELISA: 1: 20000

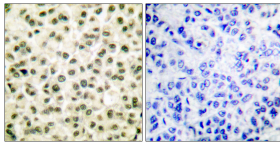
Not yet tested in other applications.

### Images

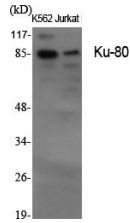




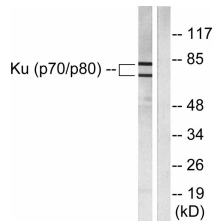
Immunofluorescence analysis of A549 cells, using Ku70/80 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using Ku70/80 Antibody. The picture on the right is blocked with the synthesized peptide.



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



Western blot analysis of lysates from LOVO cells, using Ku70/80 Antibody. The lane on the right is blocked with the synthesized peptide.



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

### Storage

-20°C for one year

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