BT LAB
Bioassay Technology Laboratory
Optimize Your Research

Ku-80 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP04902
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human Ku70/80. AA range:683-732
Mol wt	82705
Species reactivity	Human, Monkey
Clonality	Polyclonal
Recommended application	WB, IHC-p, IF, ELISA
Concentration	1 mg/ml
Full name	Ku-80 Antibody
Synonyms	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

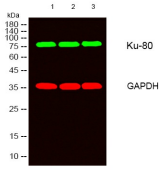
IHC: 1: 100 - 1: 300

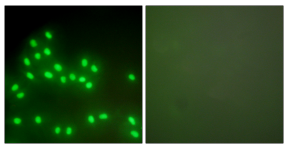
IF: 1: 200 - 1: 1000

ELISA: 1: 20000

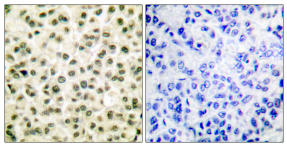
Not yet tested in other applications.

Images

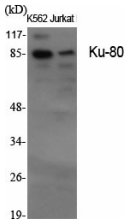




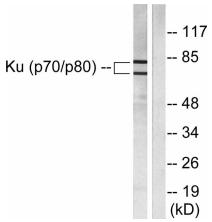
Immunofluorescence analysis of A549 cells, using Ku70/80 Antibody. The picture on the right is blocked with the synthesized peptide.



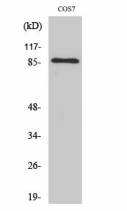
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using Ku70/80 Antibody. The picture on the right is blocked with the synthesized peptide.



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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