



Ku-80 (phospho Thr714) rabbit pAb

Cat No.:ES7520

For research use only

Overview

Product Name	Ku-80 (phospho Thr714) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Monkey
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human Ku80 around the phosphorylation site of Thr714. AA range:683-732
Specificity	Phospho-Ku-80 (T714) Polyclonal Antibody detects endogenous levels of Ku-80 protein only when phosphorylated at T714.
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	83kD
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;



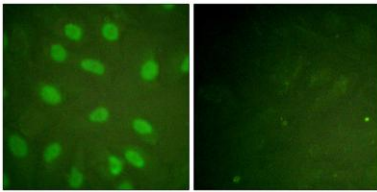


Background

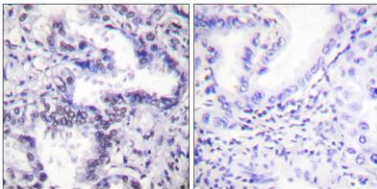
DNA repair pr

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],

Immunofluorescence analysis of HeLa cells, using Ku80 (Phospho-Thr714) Antibody. The picture on the right is blocked with the phospho peptide.

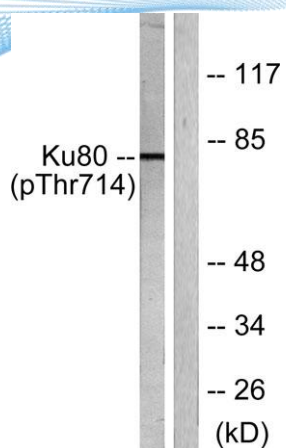


Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using Ku80 (Phospho-Thr714) Antibody. The picture on the right is blocked with the phospho peptide.





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Western blot analysis of lysates from COS7 cells, using Ku80 (Phospho-Thr714) Antibody. The lane on the right is blocked with the phospho peptide.



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