

## Product datasheet for **TA392905**

### **Ku80 (XRCC5) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	WB
<b>Recommended Dilution:</b>	WB: 1:500~1:1000 IHC: 1:50~1:200
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Synthetic phosphopeptide derived from human XRCC5 around the phosphorylation site of Threonine 714.
<b>Specificity:</b>	p-XRCC5 (T714) polyclonal antibody detects endogenous levels of XRCC5 protein only when phosphorylated at Thr714
<b>Formulation:</b>	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
<b>Concentration:</b>	1mg/ml
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
<b>Stability:</b>	1 year
<b>Predicted Protein Size:</b>	~ 82 kDa
<b>Gene Name:</b>	X-ray repair complementing defective repair in Chinese hamster cells 5
<b>Database Link:</b>	<a href="#">Entrez Gene 7520 Human P13010</a>
<b>Background:</b>	XRCC5 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.



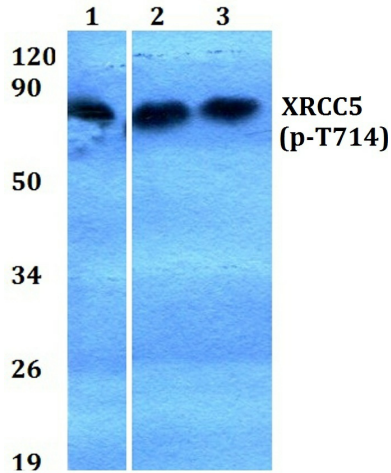
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**Synonyms:**

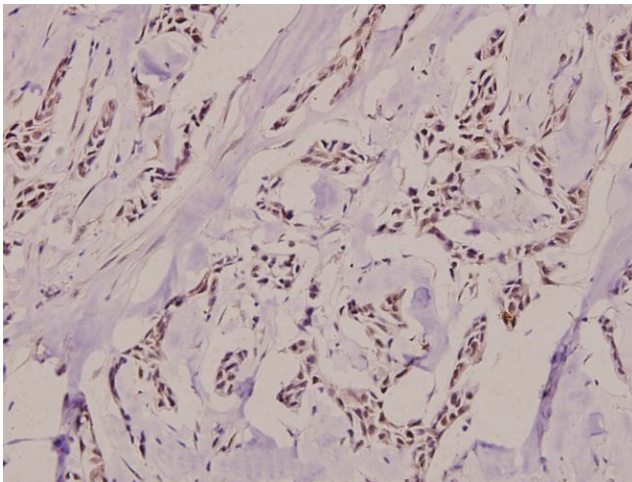
86 kDa subunit of Ku antigen; ATP-dependent DNA helicase 2 subunit 2; ATP-dependent DNA helicase II 80 kDa subunit; CTC85; CTCBF; CTC box-binding factor 85 kDa subunit; DNA repair protein XRCC5; G22P2; Ku-80; Ku-86; Ku80; Ku86; Lupus Ku autoantigen protein p86; Nuclear factor IV; Thyroid-lupus autoantigen; TLAA; X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining); X-ray repair cross-complementing protein 5; XRCC5

**Note:**

For research use only, not for use in diagnostic procedure.

**Product images:**


Western blot (WB) analysis of p-XRCC5 (T714) pAb at 1:500 dilution Lane1:A549 whole cell lysate(40ug) Lane2:A549 treated with UV for 5 minutes then repair for 1 hour whole cell lysate(40ug) Lane3:A549 treated with UV for 5 minutes then repair for 6 hours whole cell lysate(40ug) Lane4:The Brain tissue lysate of Mouse(40ug) Lane5:The Uterus tissue lysate of Rat(40ug)



Immunohistochemistry (IHC) analyzes of p-Ku-80 (T714) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.