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Product datasheet for TA392905M

Ku80 (XRCC5) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500~1:1000 IHC: 1:50~1:200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptide derived from human XRCC5 around the phosphorylation site of Threonine 714.
Specificity:	p-XRCC5 (T714) polyclonal antibody detects endogenous levels of XRCC5 protein only when phosphorylated at Thr714
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 82 kDa
Gene Name:	X-ray repair complementing defective repair in Chinese hamster cells 5
Database Link:	Entrez Gene 7520 Human P13010
Background:	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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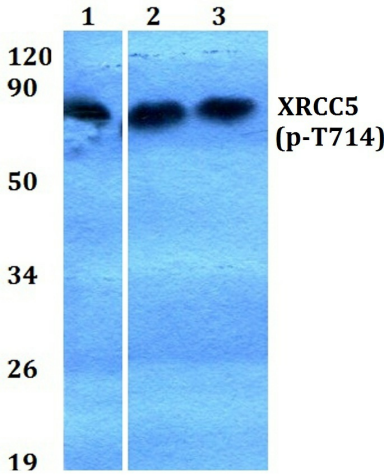
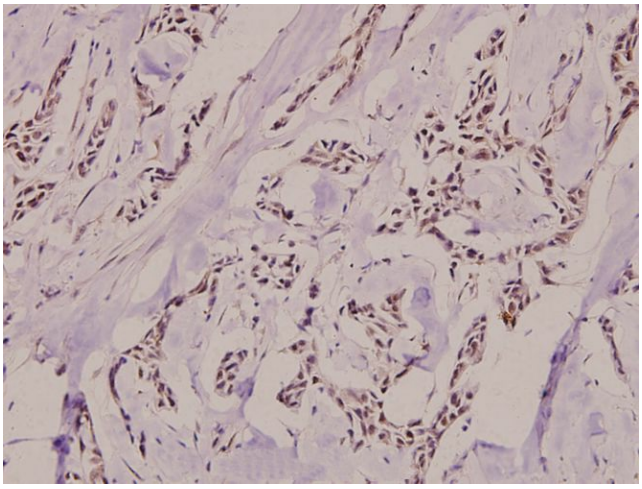
Synonyms: 86 kDa subunit of Ku antigen; ATP-dependent DNA helicase 2 subunit 2; ATP-dependent DNA helicase II 80 kDa subunit; CTC85; CTCBF; CTC box-binding factor 85 kDa subunit; DNA repair protein XRCC5; G22P2; Ku-80; Ku-86; Ku80; Ku86; Lupus Ku autoantigen protein p86; Nuclear factor IV; Thyroid-lupus 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.