

#### For Research Use Only

# IHCeasy XRCC5 Ready-To-Use IHC Kit

### Catalog Number: KHC1528

#### **General Information**

Sample type: FFPE tissue Cited sample type: Reactivity: Human Cited Reactivity: Assay type: Immunohistochemistry Primary antibody type: Rabbit Polyclonal Secondary antibody type: Polymer-HRP-Goat anti-Rabbit

## Kit Component

Size	Concentration
100 mL	50×
100 mL ×2	20×
5 mL	RTU
5 mL	RTU
5 mL	RTU
0.2 mL	RTU
4 mL	RTU
5 mL	RTU
5 mL	RTU
5 mL	RTU
1 slide (Optional)	FFPE
1 Сору	
1 Сору	
	100 mL 100 mL ×2 5 mL 5 mL 5 mL 0.2 mL 4 mL 5 mL 5 mL 5 mL 5 mL 1 slide (Optional) 1 Copy

#### Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

### Background

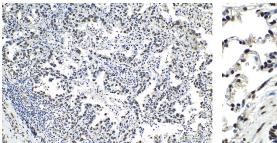
There are at least two pathways for eukaryotes to repair DNA double-strand breaks: homologous recombination and nonhomologous end joining(NHEJ). The core NHEJ machinery includes XRCC4, DNA ligase IV and the DNA-dependent protein kinase complex, which consists of the DNA end-binding XRCC5/XRCC6 heterodimer and the catalytic subunit PRKDC. The heterdimer of XRCC5/KRCC6 enhanced teh affinity of the catalytic subunit PRKDC to DNA by 100-fold. Once the XRCC5/G dimer association with NAA15, it can bind to the osteocalcin promoter and activate osteocalcin expression. The XRCC5/G dimer acts as a negative regulator of transcription when together with APEX1. Some publised papers indicated that the MW of XRCC5 is 86kDa, while more papers suggested that XRCC5 is a 80kDa protein, as it was firstly introducted in publication. Thus, Ku80 and Ku86 are the same protein.

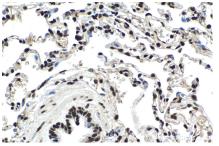
**Synonyms** 

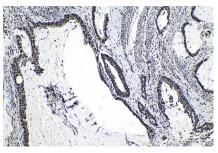
86 kDa subunit of Ku antigen, CTC85, CTCBF, DNA repair protein XRCC5, G22P2, KARP 1, KARP1, Ku80, Ku86, KUB2, NFIV, Nuclear factor IV, Thyroid lupus autoantigen, TLAA, XRCC5, XRCC5/Ku80

For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data







Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using KHC1528 (XRCC5 IHC Kit).

Immunohistochemical analysis of paraffinembedded human lung tissue slide using KHC1528 (XRCC5 IHC Kit).

Immunohistochemical analysis of paraffinembedded human urothelial carcinoma tissue slide using KHC1528 (XRCC5 IHC Kit).