For Research Use Only

## XRCC5 Monoclonal antibody, PBS Only



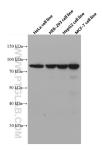
Catalog Number:66546-1-PBS

Basic Information	Catalog Number: 66546-1-PBS	GenBank Accession Number: BC019027	Purification Method: Protein G purification
	Size: 1 mg/ml	GeneID (NCBI): 7520	CloneNo.: 2G5E7
	Source: Mouse	UNIPROT ID: P13010	
	lsotype: lgG1	Full Name: X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining) Calculated MW: 732 aa, 83 kDa	
	Immunogen Catalog Number: AG9512		
		Applications	Tested Applications: WB,IP,Indirect ELISA,IHC,IF
Species Specificity: Human, mouse, rat			
Background Information	There are at least two pathways for eukaryotes to repair DNA double-strand breaks: homologous recombination and nonhomologous end joining(NHEI). 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/XRCC6 enhanced teh affinity of the catalytic subunit PRKDC to DNA by 100-fold. Once the XRCC5/6 dimer association with NAA15, it can bind to the osteocalcin promoter and activate osteocalcin expression. The XRCC5/6 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.		
Storage	Storage: Store at -80°C. Storage Buffer: PBS Only		

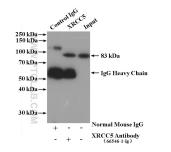
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

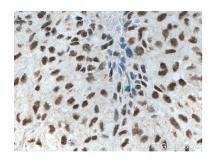
## Selected Validation Data



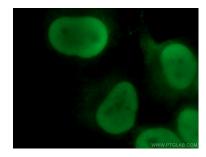
Various lysates were subjected to SDS PAGE followed by western blot with 66546-1-Ig (XRCC5 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66546-1-PBS in a different storage buffer formulation.



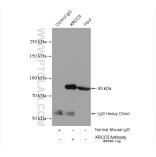
IP result of anti-XRCC5 (IP:66546-1-1g, Sug; Detection:66546-1-1g 1:20000) with HeLa cells lysate 3200 ug. This data was developed using the same antibody clone with 66546-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 66546-1-Ig (XRCC5 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66546-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 66546-1-1g (XRCC5 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse 1gG(H+L). This data was developed using the same antibody clone with 66546-1-PBS in a different storage buffer formulation.



IP result of anti-XRCC5 (IP:66546-1-1g, 5ug; Detection:66546-1-1g 1:40000) with HeLa cells lysate 640 ug. This data was developed using the same antibody clone with 66546-1-PBS in a different storage buffer formulation.