## For Research Use Only

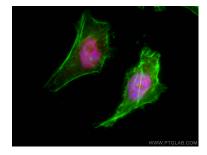
## CoraLite®594-conjugated XRCC5/Ku80

Catalog Number: CL594-66546

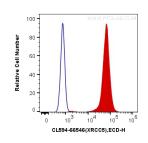
Basic Information	Catalog Number: CL594-66546	GenBank Accession Number: BC019027	Purification Method: Protein G purification	
	Concentration: 1000 ug/ml	GenelD (NCBI): 7520	CloneNo.: 2G5E7	
	Source: Mouse	UNIPROT ID: P13010	Recommended Dilutions: IF/ICC 1:50-1:500	
	lsotype: IgG1	X-ray repair complementing defectivewavelengths:		
	Immunogen Catalog Number: AG9512	repair in Chinese hamster cells 5 588 nm / 604 nm (double-strand-break rejoining)		
		Calculated MW: 732 aa, 83 kDa		
		Observed MW: 80-83 kDa		
Applications	Tested Applications: IF/ICC, FC (Intra)	IF/ICC : HeLa cells,		
	Species Specificity: human			
Background Informati	nonhomologous end joining(NHE, dependent protein kinase comple catalytic subunit PRKDC. The hete DNA by 100-fold. Once the XRCC5 activate osteocalcin expression. T APEX1. Some publised papers ind	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/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 Buffer: PBS with 50% glycerol, 0.05% Pro	Store at -20°C. Avoid exposure to light. Stable for one year after shipment.		

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



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite®594-conjugated XRCC5 antibody (CL594-66546, Clone: 2G5E7 ) at dilution of 1:100.



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.2 ug CoraLite®594 Anti-Human XRCC5 (CL594-66546, Clone:2G5E7) (red), or 0.2 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).