## For Research Use Only

## CoraLite®555-conjugated XRCC5 Monoclonal antibody

Catalog Number: CL555-66546

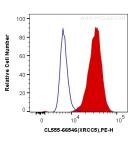


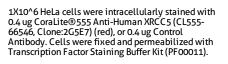
Basic Information	Catalog Number: CL555-66546	GenBank Accession Number: BC019027	Purification Method: Protein G purification		
	Size:	GeneID (NCBI):	CloneNo.:		
	100ul , Concentration: 1000 ug/ml by Nanodrop; Source:		2G5E7		
		UNIPROT ID:	Recommended Dilutions:		
		P13010	IF/ICC 1:50-1:500		
	Mouse	Full Name:	Excitation/Emission maxima		
	Isotype: IgG1 Immunogen Catalog Number: AG9512	X-ray repair complementing defective wavelengths:			
		repair in Chinese hamster cells 5 557 nm / 570 nm (double-strand-break rejoining) Calculated MW:			
				732 aa, 83 kDa	
				Observed MW: 80-83 kDa	
		Applications	Tested Applications:	Positive Controls:	
			IF/ICC, FC (Intra)	IF/ICC : HeLa cells,	
Species Specificity:					
human					
Background Information	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.				
	a ookoa protein, as it was firstly intro	סטטכופט וח מסטוכמנוסה. דחטג, Ku80 an	u Nuoo are the same protein.		

For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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## Selected Validation Data







Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite®555 XRCC5 antibody (CL555-66546, Clone: 2G5E7 ) at dilution of 1:200.