For Research Use Only

XRCC5 Monoclonal antibody

Catalog Number:66546-1-lg 5 Publications

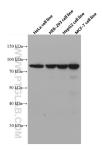


Basic Information	Catalog Number: 66546-1-lg	GenBank Accession Number: BC019027	Purification Method: Protein G purification	
	Size:	GenelD (NCBI):	CloneNo.:	
	1800 µg/ml	7520	2G5E7	
	Source:	UNIPROT ID:	Recommended Dilutions:	
	Mouse	P13010	WB 1:5000-1:50000	
	lsotype:	Full Name:	IP 0.5-4.0 ug for 1.0-3.0 mg of total	
	lgG1	X-ray repair complementing defect repair in Chinese hamster cells 5	IHC 1:500-1:2000	
	Immunogen Catalog Number: AG9512	(double-strand-break rejoining)	IF 1:50-1:500	
		Calculated MW: 732 aa, 83 kDa		
		Observed MW: 80-83 kDa		
Applications	Tested Applications:	Positive Co	Positive Controls: WB : HeLa cells, HEK-293 cells, HepG2 cells, MCF-7	
	IF/ICC, IHC, IP, WB, ELISA	WB : HeLa d		
	Cited Applications:	cells		
	WB, IF	IP : HeLa ce	lls,	
	Species Specificity: Human, mouse, rat		n lung cancer tissue, human breast cance	
	Cited Species: human	tissue IF : HeLa ce	lls,	
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
	There are at least two pathways for eukaryotes to repair DNA double-strand breaks: homologous recombination an 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 wi APEX1. Some publised papers indicated that the MW of XRCC5 is 86kDa, while more papers suggested that XRCC5 i a 80kDa protein, as it was firstly introducted in publication. Thus, Ku80 and Ku86 are the same protein.			
Background Information	dependent protein kinase comple catalytic subunit PRKDC. The hete DNA by 100-fold. Once the XRCC5 activate osteocalcin expression. T APEX1. Some publised papers indi	I). The core NHEJ machinery includes X x, which consists of the DNA end-bindin rdimer of XRCC5/XRCC6 enhanced teh /6 dimer association with NAA15, it ca he XRCC5/6 dimer acts as a negative r cated that the MW of XRCC5 is 86kDa,	RCC4, DNA ligase IV and the DNA- ng XRCC5/XRCC6 heterodimer and the affinity of the catalytic subunit PRKDC to n bind to the osteocalcin promoter and egulator of transcription when together w while more papers suggested that XRCC5	
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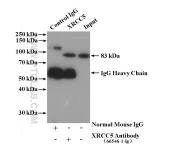
For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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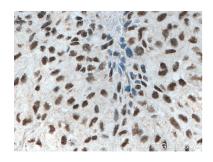
Selected Validation Data



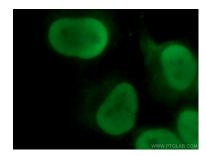
Various lysates were subjected to SDS PAGE followed by western blot with 66546-1-lg (XRCC5 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



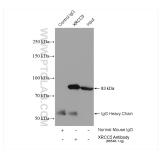
IP result of anti-XRCC5 (IP:66546-1-Ig, 5ug; Detection:66546-1-Ig 1:20000) with HeLa cells lysate 3200 ug.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 66546-1-1g (XRCC5 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 IgG(H+L).



IP result of anti-XRCC5 (IP:66546-1-Ig, 5ug; Detection:66546-1-Ig 1:40000) with HeLa cells lysate 640 ug.