

For Research Use Only

# CoraLite®594-conjugated KU70,XRCC6 Monoclonal antibody

Catalog Number:CL594-66607



## Basic Information

Catalog Number: CL594-66607	GenBank Accession Number: BC008343	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 2547	CloneNo.: 3C12D9
Source: Mouse	UNIPROT ID: P12956	Recommended Dilutions: WB 1:500-1:1000 IF/ICC 1:300-1:1200
Isotype: IgG1	Full Name: X-ray repair complementing defective repair in Chinese hamster cells 6	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG21301	Calculated MW: 75 kDa	
	Observed MW: 70 kDa	

## Applications

Tested Applications: WB, IF/ICC, FC (Intra)	Positive Controls:
Species Specificity: human, mouse, rat	WB : HEK-293 cells, HeLa cells, Jurkat cells, MCF-7 cells IF/ICC : HeLa cells, HepG2 cells

## Background Information

X-ray repair cross-complementing protein 6(XRCC6)gene encodes subunit p70 of the p70/p80 autoantigen which has a role in DNA repair or transposition. DNA helicase II complex binds preferentially to fork-like ends of double-stranded DNA in a cell cycle-dependent manner, which may be mediated by XRCC6. XRCC6/5 can form a heterodimer, which function as a regulatory subunit of the DNA-dependent protein kinase complex DNA-PK by increasing the affinity of the catalytic subunit PRKDC to DNA, and also it can stabilize broken DNA ends and bringing them together. Otherwise, XRCC5/6 heterodimer together with APEX1 can negatively regulate of transcription.

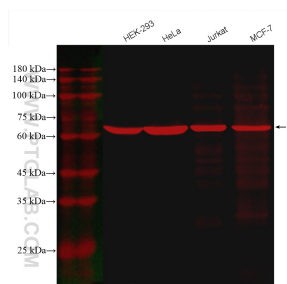
## Storage

Storage:  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
Storage Buffer:  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

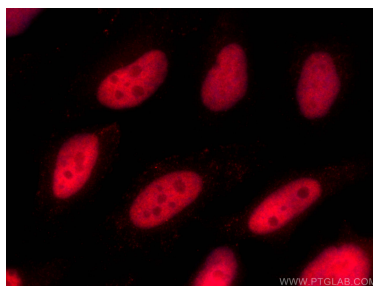
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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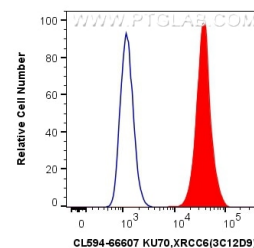
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL594-66607 (KU70,XRCC6 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite®594 KU70,XRCC6 antibody (CL594-66607, Clone: 3C12D9) at dilution of 1:600.



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human KU70,XRCC6 (CL594-66607, Clone:3C12D9) (red), or 0.4 ug CoraLite®594 Mouse IgG1 Isotype Control (MOPC-21) (CL594-65124, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).