

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 µg/ml by Nanodrop;	GeneID (NCBI): 2547	CloneNo.: 3C12D9
Source: Mouse	Full Name: X-ray repair complementing defective repair in Chinese hamster cells 6	Recommended Dilutions: WB 1:500-1:1000 IF 1:300-1:1200
Isotype: IgG1	Calculated MW: 75 kDa	Excitation/Emission maximum wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG21301	Observed MW: 70 kDa	

Applications

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

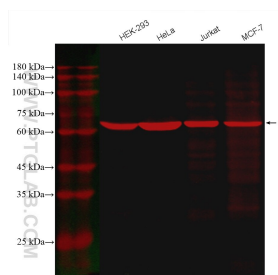
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

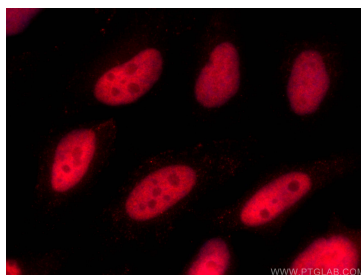
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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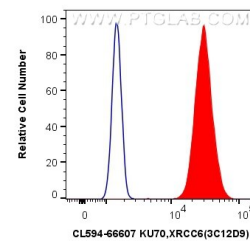
Selected Validation Data



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.



1X10⁶ HeLa 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).