

For Research Use Only

KU70, XRCC6 Monoclonal antibody, PBS Only



Catalog Number: 66607-1-PBS

Basic Information

Catalog Number: 66607-1-PBS	GenBank Accession Number: BC008343	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 2547	CloneNo.: 3C12D9
Source: Mouse	UNIPROT ID: P12956	
Isotype: IgG1	Full Name: X-ray repair complementing defective repair in Chinese hamster cells 6	
Immunogen Catalog Number: AG21301	Calculated MW: 75 kDa	
	Observed MW: 70 kDa	

Applications

Tested Applications:
WB, Indirect ELISA, IHC, IF, FC

Species Specificity:
Human, mouse, rat

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 bring them together. Otherwise, XRCC5/6 heterodimer together with APEX1 can negatively regulate of transcription.

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

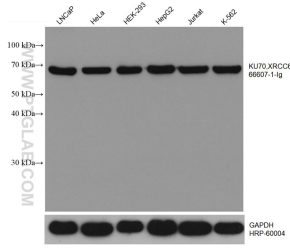
T: 4006900926

E: Proteintech-CN@ptglab.com

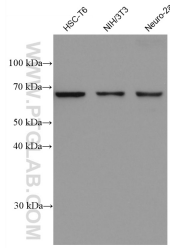
W: ptgcn.com

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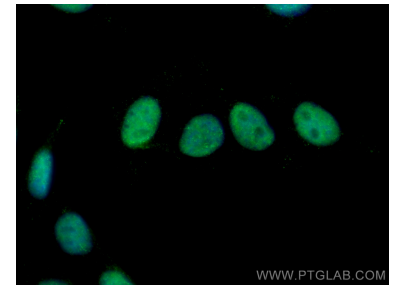
Selected Validation Data



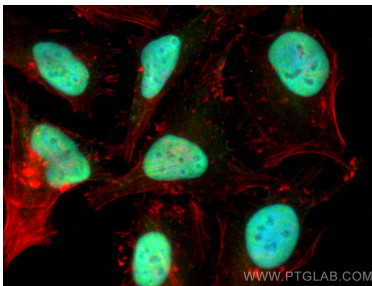
Various lysates were subjected to SDS PAGE followed by western blot with 66607-1-Ig (KU70, XRCC6 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 66607-1-PBS in a different storage buffer formulation.



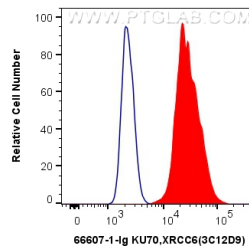
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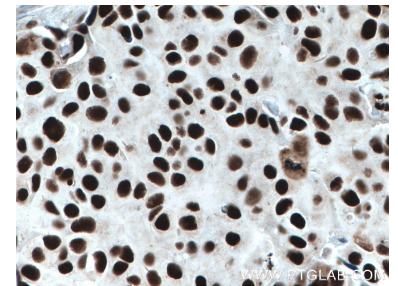
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using KU70, XRCC6 antibody (66607-1-Ig, Clone: 3C12D9) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66607-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using KU70, XRCC6 antibody (66607-1-Ig, Clone: 3C12D9) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 66607-1-PBS in a different storage buffer formulation.



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human KU70, XRCC6 (66607-1-Ig, Clone:3C12D9) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 66607-1-PBS in a



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66607-1-Ig (KU70, XRCC6 antibody) at dilution of 1:4000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66607-1-PBS in a different storage buffer formulation.