## For Research Use Only

# KU70,XRCC6 Monoclonal antibody

Catalog Number:66607-1-lg 11 Publications



**Basic Information** 

Catalog Number: GenBank Accession Number: Purification Method: 66607-1-lg BC008343 Protein A purification

Size:GeneID (NCBI):CloneNo.:150ul , Concentration: 1000 ug/ml by 25473C12D9

 Nanodrop;
 UNIPROT ID:
 Recommended Dilutions:

 Source:
 P12956
 WB 1:20000-1:100000

 Mouse
 Full Name:
 IHC 1:2000-1:8000

 Isotype:
 X-ray repair complementing defective
 IF-P 1:50-1:500

 IgG1
 repair in Chinese hamster cells 6
 IF-Fro 1:200-1:4000

Immunogen Catalog Number: Calculated MW: AG21301 75 kDa

Observed MW:

70 kDa

**Applications** 

**Tested Applications:** 

WB, IHC, IF/ICC, IF-P, IF-Fro, FC (Intra), ELISA

Cited Applications: WB, IF, IP, CoIP, ChIP Species Specificity: human, mouse, rat Cited Species: human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 **Positive Controls:** 

WB: LNCaP cells, HSC-T6 cells, NIH/3T3 cells, RAW 264.7 cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells. K-562 cells. Neuro-2a cells

IHC: human breast cancer tissue, human colon cancer tissue, human lung cancer tissue

IF-P: human breast cancer tissue,
IF-Fro: mouse breast cancer,
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-standed DNA in a cell cycle-dependent manner, which may be mediated by XRCC6. XRCC6/5 can form a heterdimer, 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 stablize broken DNA ends and bringing them together. Otherwise, XRCC5/6 heterdimer together with APEX1 can negatively regulate of transcription.

### **Notable Publications**

Author	Pubmed ID	Journal	Application
Qidong Li	36417875	Cell Rep	IF
Yan Wang	33667382	Immunity	WB,IF,IP
Tao Wang	35036867	iScience	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

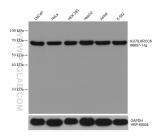
\*\*\* 20ul sizes contain 0.1% BSA

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

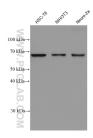
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

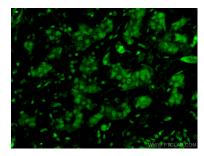
### Selected Validation Data



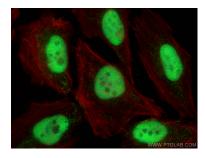
Various lysates were subjected to SDS PAGE followed by western blot with 66607-1-lg (KU70,XRCC6 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



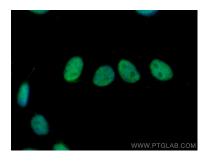
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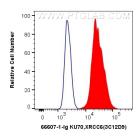
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using 66607-1-lg (KU70,XRCC6 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



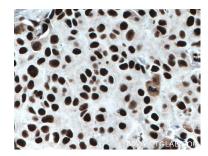
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using KU70, XRCC6 antibody (66607-1-Ig, Clone: 3C12D9) at dilution of 1:2000 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



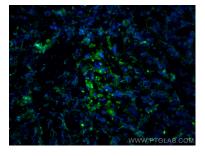
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using KU70,XRCC6 antibody (66607-1-Ig, Clone: 3C12D9) at dilution of 1:800 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human KU70,XRCC6 (66607-1-lg, Clone:3C 12D9) 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-lg, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66607-1-1g (KU70,XRCC6 antibody) at dilution of 1:4000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse breast cancer using KU70,XRCC6 antibody (66607-1-Ig, Clone: 3C12D9) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).