For Research Use Only

KU70,XRCC6 Monoclonal antibody

Catalog Number:66607-1-lg 12 Publications



Basic Information

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

GeneID (NCBI): Source: CloneNo.: Mouse 2547 3C12D9

UNIPROT ID: Recommended Dilutions: Isotype: lgG1 P12956 WB: 1:20000-1:100000 IHC: 1:2000-1:8000 Immunogen Catalog Number: Full Name: X-ray repair complementing defective IF-P: 1:50-1:500 AG21301

IF-Fro: 1:200-1:800 repair in Chinese hamster cells 6 IF/ICC: 1:1000-1:4000

Calculated MW: FC (Intra): 0.40 ug per 10⁶ cells in a

75 kDa 100 µl suspension

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

FC (Intra): 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 doublestanded 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,IP,IF
Tao Wang	35036867	iScience	IF

Storage

Storage:

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

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

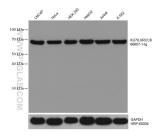
Aliquoting is unnecessary for -20°C storage

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

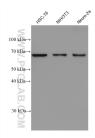
T: 4006900926 E: Proteintech-CN@ptglab.com

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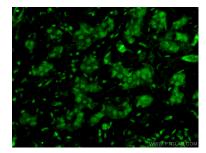
Selected Validation Data



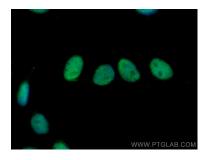
Various lysates were subjected to SDS PAGE followed by western blot with 66607-1-lg (KU70,XRCC6 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



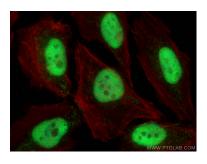
Various lysates were subjected to SDS PAGE followed by western blot with 66607-1-1g (KU70,XRCC6 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



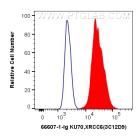
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using 66607-1-lg (KU70,XRCC6 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



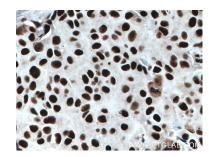
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using KU70,XRCC6 antibody (66607-1-Ig, Clone: 3C12D9) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



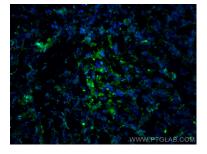
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using KU70,XRCC6 antibody (66607-1-lg, Clone: 3C12D9) at dilution of 1:2000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human KU70,XRCC6 (66607-1-1g, 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) (65124-1-1g, 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).