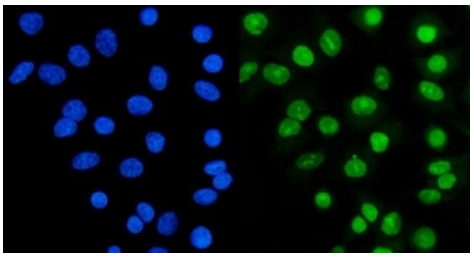
Ku70 Antibody (R30726)

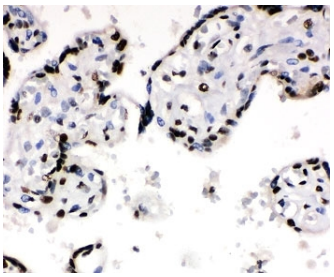
Catalog No.	Formulation	Size
R30726	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

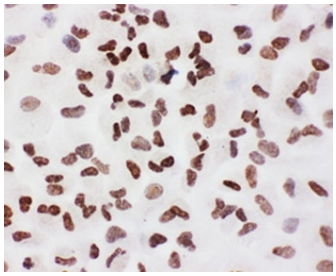
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P12956
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml Immunocytochemistry: 0.5-1ug/ml Immunofluorescence: 2-4ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This Ku70 antibody is available for research use only.



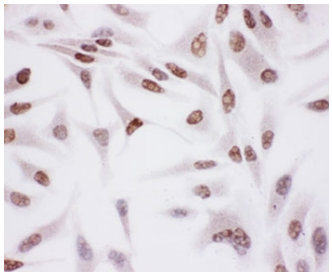
Ku70 Antibody A549 Cell IF. Immunofluorescent staining of FFPE human A549 cells with Ku70 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



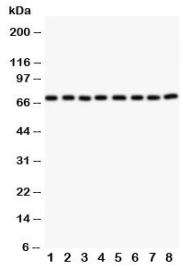
Ku70 Antibody Placenta Immunohistochemistry. IHC-P: Ku70 antibody testing of human placenta tissue. HIER: steam section in pH6 citrate buffer for 20 min.



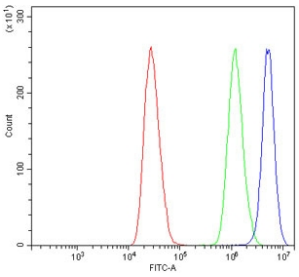
Ku70 Antibody A549 Cell ICC. Immunocytochemistry testing of FFPE human A549 cells. HIER: steam section in pH6 citrate buffer for 20 min.



Ku70 Antibody HeLa Cell ICC. Immunocytochemistry testing of FFPE human HeLa cells. HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of Ku70 antibody and Lane 1: HT1080; 2: SGC; 3: A453; 4: SW620; 5: HeLa; 6: A431; 7: A549; 8: Raji cell lysate. Predicted molecular weight ~70 kDa.



Ku70 Antibody MCF7 Cell FACS. Flow cytometry testing of human MCF7 cells with Ku70 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Ku70 antibody.

Description

XRCC6 (X-Ray Repair, Complementing Defective, In Chinese Hamster, 6), also called Ku70, G22P1 or TLAA, is a protein that in humans, is encoded by the XRCC6 gene. The XRCC6 gene encodesthe subunit p70 of the p70/p80 autoantigen which consists of two proteins of molecular mass of approximately 70,000 and 80,000 daltons that dimerize to form a 10 S DNA-binding complex. XRCC6 and Mre11 are differentially expressed during meiosis. XRCC6 interacts with Baxa, a mediator of mitochondrial-dependent apoptosis. Disruption of both FANCC and XRCC6/Ku70 suppressed sensitivity to crosslinking agents, diminished chromosome breaks, and reversed defective homologous recombination. Ku70 binds directly to free DNA ends, committing them to NHEJ repair. In early meiotic prophase, however, when meiotic recombination is most probably initiated, Mre11 was abundant, whereas Ku70 was not detectable.

For investigations involving XRCC6-associated DNA end recognition and double-strand break repair signaling, see our Ku70 Antibody / DNA End Binding Protein Antibody featuring IHC, IF, FACS, and western blot validation data across multiple human tumor types and cell lines.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Ku70 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Ku70 (YPPDYNPEGKVTKRKH) was used as the immunogen for this Ku70 antibody.

Storage

After reconstitution, the Ku70 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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